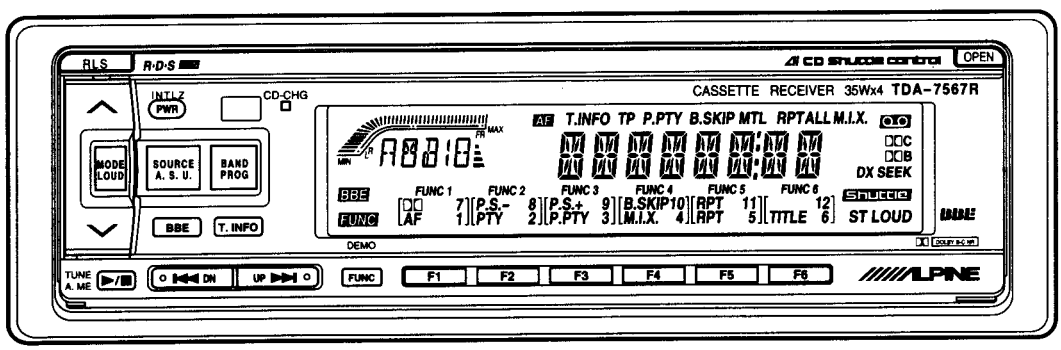
ALPINE®

SERVICE MANUAL

FM/MW/LW/RDS Cassette Receiver

CD Shuttle Controller

● For the cassette deck mechanism parts (GR75S120) of this model, refer to the Service Manual • GR-S Series (Part No. 68E23241S01).



(TDA-7567R)

TDA-7567R/ TDA-7565R

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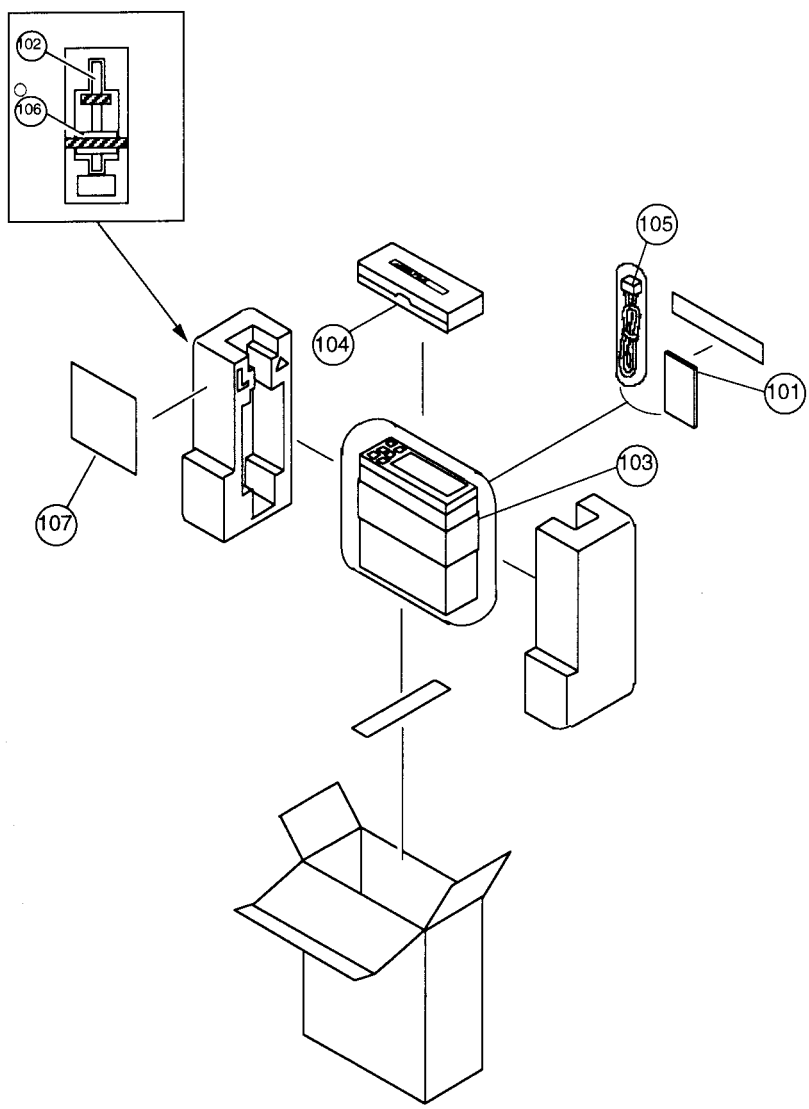
Packing Assembly Parts List

Symbol No.	Part No.	Description
101-1	02B47353F01	Nut, Hex. M5
101-2	03S72235F13	Screw, Countersink (M5X8)
101-3	46A42363F01	Stud, Bolt
101-4	36A11113W01	Cap, Rubber (A)
101-5	03A11112W01	Screw, Bolt, Hex. M5
101-6	01T75363W01	ISO/JASO Antenna Adapter
101-7	60S70585F01	Battery, Lit. CR2025
101-8	75S50638W69	Cushion, Rubber
101-9	03S68555F17	Screw, Bind (M2X4)
102	07B64552F01	Bracket, Strap Receiver

Symbol No.	Part No.	Description
103	15D50406W01	Case, Inner
104	15D71506W01	Carrying, Case
105	01T85297W01	Assy., Wire ISO
○ 106	01T75235W05	Assy., Card Remocon
107	68P90579W68	Owner's Manual

NOTE : ○: For TDA-7567R Model Only, ●: For TDA-7565R Model Only, Others : Common.

Packing Method View



NOTE: ○: For TDA-7567R Model Only, ● : For TDA-7565R Model Only, Others : Common.

Specifications

FM RADIO

Intermediate Frequency	10.7±0.1MHz
Frequency Range	87.5~108MHz
Usable Sensitivity (30dB S/N, Mono, 98.1MHz)	17.2dBf
-3dB Limiting Sensitivity (98.1MHz)	19.2dBf
S/N Ratio (Stereo, 98.1MHz)	56dB
Image Rejection (106.1MHz)	40dB
IF Rejection (90.1MHz)	60dB
Distortion (Input 60dB μ, 98.1MHz)	1%
Frequency Response (98.1MHz, Ref. 400Hz)	100Hz : 0±3dB 10kHz : -12±3dB
PS Sensitivity (98.1MHz)	36.2dBf
TP Sensitivity (98.1MHz)	36.2dBf

MW RADIO

Intermediate Frequency	450kHz
Frequency Range	531~1,602kHz
Sensitivity (20dB S/N, 999kHz)	35dB
S/N Ratio (999kHz)	44dB
Image Rejection (1,404kHz)	50dB
IF Rejection (603kHz)	60dB
Distortion (999kHz)	1.5%
Frequency Response (999kHz, Ref. 400Hz)	100Hz : -3±4dB 4kHz : -12+6, -12dB

LW RADIO

Intermediate Frequency	450kHz
Frequency Range	153~281kHz
Sensitivity (20dB S/N, 216kHz)	41dB
S/N Ratio (216kHz)	42dB
Image Rejection (270kHz)	40dB
IF Rejection (162kHz)	50dB
Distortion (216kHz)	1.5%
Frequency Response (216kHz, Ref. 400Hz)	100Hz : -3±4dB 4kHz : -12+6, -12dB

TAPE PLAYER

Wow & Flutter (JIS, WRMS/MTT-111N)	0.2%
Tape Speed (MTT-111N)	4.76cm/sec. +3 to -1%
S/N Ratio	52dB
Distortion (MTT-118N)	2%
Frequency Response (3dB)	250Hz~10kHz
Crosstalk (MTT-121N)	45dB
Separation (MTT-141N)	35dB

GENERAL

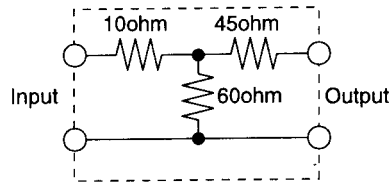
Power Supply	14.4V DC
Power Output/Impedance	1 6W/4ohm
Semiconductors	27IC's, 64Transistors, 22Diodes, 7ZenerDiodes (○) 24IC's, 58Transistors, 22Diodes, 7ZenerDiodes (●)
Dimensions (W×H×D)	Nose : 170×46×22mm Chassis : 178×50×150mm
Weight	1.4kg

Note : Due to Continuing product improvement, specifications and designs are subject to change without notice.
○ : For TDA-7567R Model Only, ● : For TDA-7565R Model Only, Others : Common.

Adjustment Procedures

1. FM SECTION

(1) Dummy Antenna Circuit



For 50 ohm FM Signal Generator

Figure 1

(2) Connections

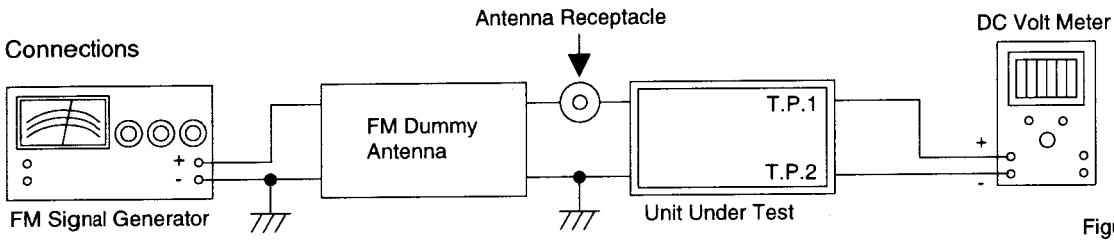


Figure 2

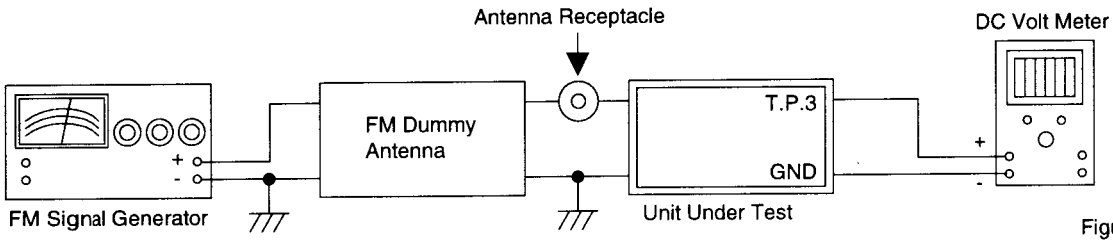


Figure 3

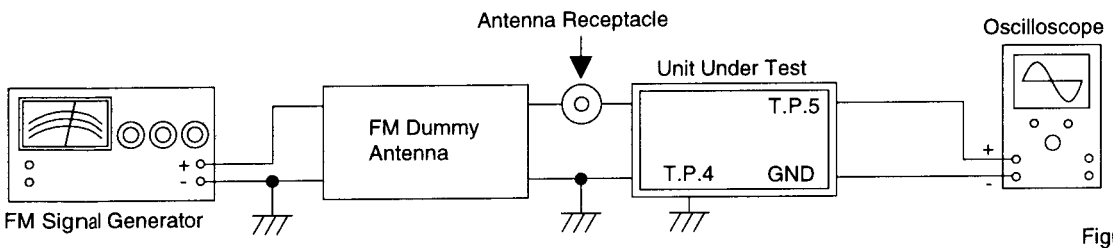


Figure 4

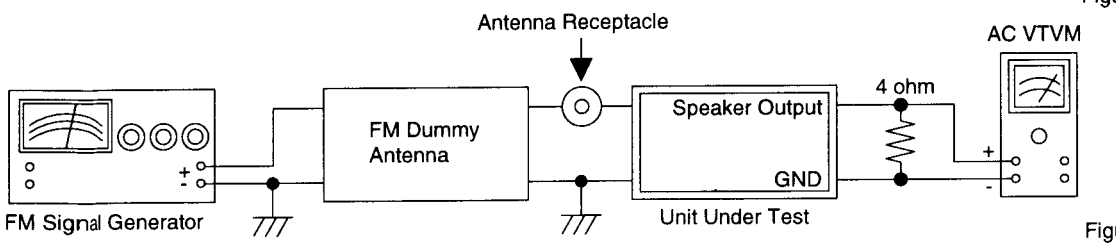


Figure 5

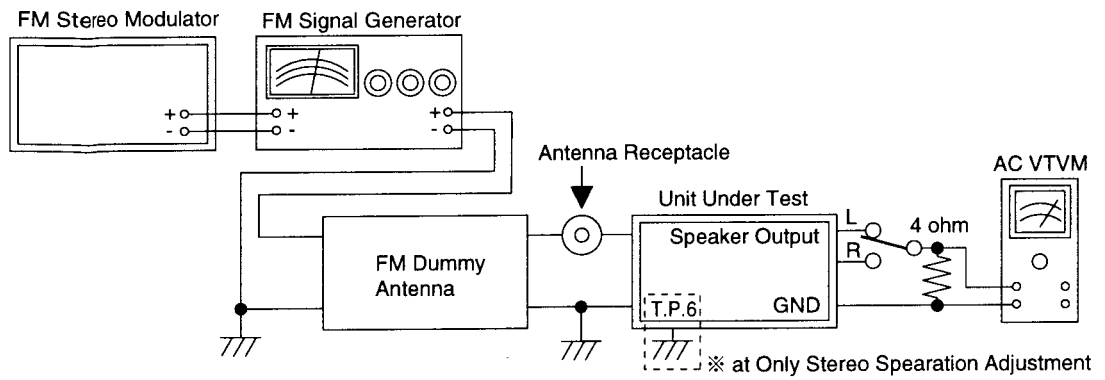
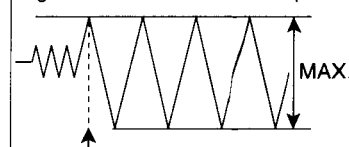


Figure 6

(3) Control Settings

Power Switch ..... ON
Fader Control ..... Center Position
Balance Control ..... Center Position
Treble/Bass Control ..... Center Position
Band Switch ..... FM
Others ..... OFF

(4) Adjustment Procedures

Step	Description		Connection	Signal Generator	Dial Control	Test Point		Adjustment
1	IF Adjustment		Figure 2	98.1MHz, 72dB (Mod. OFF)	98.1MHz	T.P.1 T.P.2		Adjust L2101 to 0 ±15mV.
2	Signal Meter Adjustment		Figure 3	98.1MHz, 46dB (Mod. 400Hz, Dev. 40kHz)	98.1MHz	T.P.3		Adjust VR2101 to 3.5 ±0.1V.
3	Seek Stop Adjustment		Figure 4	98.1MHz, 30dB (Mod. OFF)	98.1MHz	T.P.4 T.P.5		Adjust VR2104 for the waveform changing to maximum output. Figure : Waveform of T.P.5 output.  Stop the adjust VR2104 at this time.
4	Noise Level Adjustment	(1)	Figure 5	98.1MHz, 72dB (Mod. 400Hz, Dev. 40kHz)	98.1MHz	Speaker Output		Adjust VOLUME to obtain 2V output. This value is 0dB.
								Adjust VOLUME to obtain 400mV output. This value is 0dB.
		(2)	Figure 5	98.1MHz, -19dB (Mod. 400Hz, Dev. 40kHz)	98.1MHz	Speaker Output		Adjust VR2105 to -25 ±3dB output at SG level minimum.
5	Stereo Blend Adjustment (Lch)		Figure 6	98.1MHz, 40dB (Mod. 1kHz, Dev. 36kHz, Stereo, Lch Only)	98.1MHz	Speaker Output		Adjust VR2102 for Lch and Rch output level difference to be 8 ±2dB.
6	Stereo Separation Adjustment (Lch)		Figure 6	98.1MHz, 72dB (Mod. 1kHz, Dev. 36kHz, Stereo, Lch Only)	98.1MHz	Speaker Output	T.P.6	Adjust VR2103 for Rch output to be minimum, and confirm Lch and Rch output level difference is more than 20dB.
7	Stereo Blend Adjustment (Rch)		Figure 6	98.1MHz, 40dB (Mod. 1kHz, Dev. 36kHz, Stereo, Rch Only)	98.1MHz	Speaker Output		Proceed same adjustment under step 5.
8	Stereo Separation Adjustment (Rch)		Figure 6	98.1MHz, 72dB (Mod. 1kHz, Dev. 36kHz, Stereo, Rch Only)	98.1MHz	Speaker Output	T.P.6	Proceed same adjustment under step 6 by alternating Lch and Rch.

2. TAPE PLAYER SECTION

(1) Connection

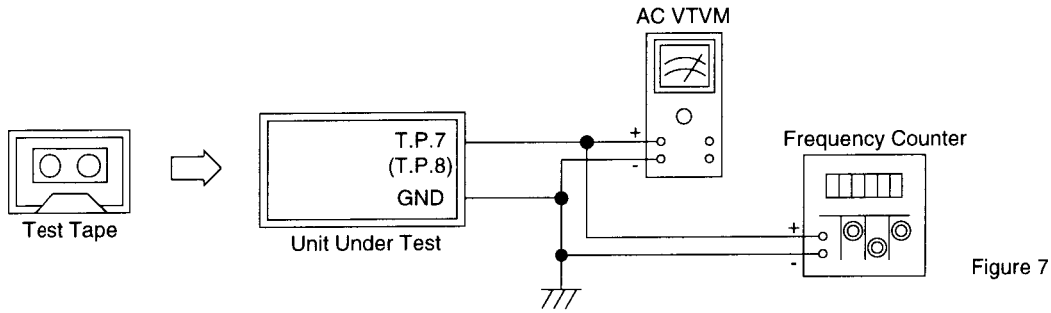


Figure 7

(2) Control Settings

Power Switch ..... ON
Fader Control ..... Center Position
Balance Control ..... Center Position
Treble/Bass Control ..... Center Position
Others ..... OFF

(3) The necessaries for adjustment

GR-S Extension Cord
Assy., EX Cord Kit for GR-S Mechanism
Part No. 01E23255S01
See Adjustment Locations (Figure 10).

(4) Adjustment Procedures

Step	Description	Test Tape	Connection	Test Point	Adjustment Point	Adjustment
1	Head Azimuth Adjustment	MTT-114NB (14kHz)	Figure 7	T.P.7 (Lch) T.P.8 (Rch)	Head Azimuth Adjustment Screws (Figure 8)	Adjust for Max. and same level output at Forward and Reverse positions.
2	Dolby Level Adjustment	MTT-150 (400Hz)	Figure 7	T.P.7 (Lch) T.P.8 (Rch)	VR201 (Lch) VR202 (Rch)	Adjust for 388mV ±1dB at T.P.7 (Lch) and T.P.8 (Rch).
3	Tape Speed Adjustment	MTT-111N (3kHz)	Figure 7	T.P.7 (Lch) or T.P.8 (Rch)	Tape Speed Adjustment (Figure 9)	Adjust for 2,970 to 3,090Hz at T.P.7 (T.P.8).

Adjustment Locations

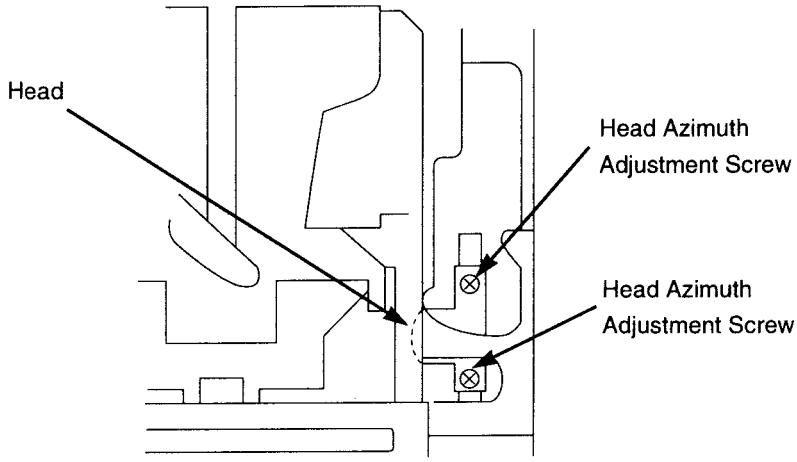


Figure 8

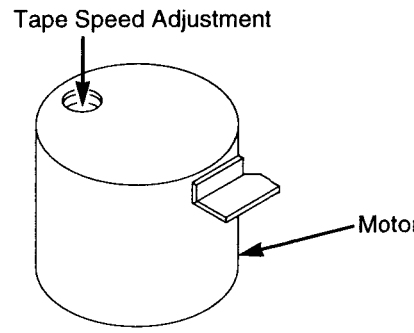


Figure 9

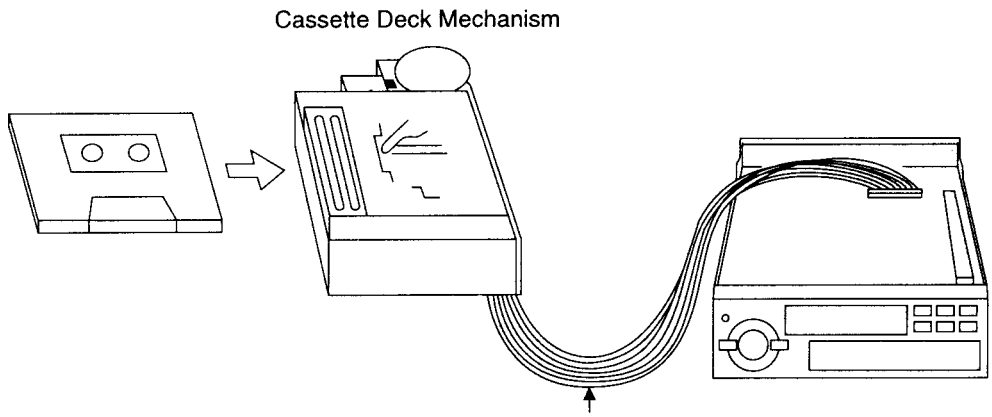
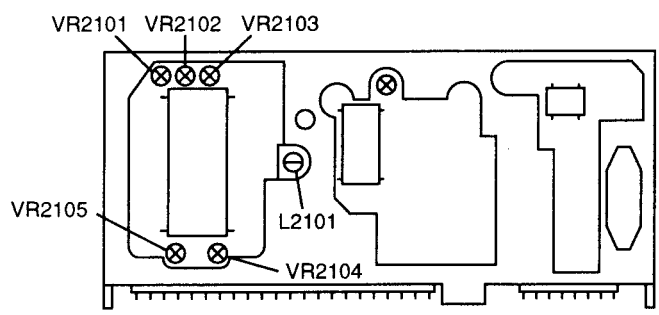


Figure 10



FM/MW/LW Tuner Unit (FE001)

NOTE: For the Adjustment parts (VR201, VR202) and Test Points (T.P.1 ~6), refer to the Parts Layout on P.C. Boards and Wiring Diagram.

Description of IC Terminal

85151W24 : IC501

No.	Symbol	I/O	Terminal Description
1	DIMMER OUT	O	Pulse wide modulation signal output terminal for CFL brightness control.
2	NOSE PWR	O	Power control signal output terminal to NOSE.
3	BUZZER	O	Guide tone signal output terminal.
4	DTS STRT	O	Data start signal output output terminal for DTS μ-Com.
5	DTS MUTE	I	Mute signal input terminal from DTS μ-Com.
6	DTS CE	O	CE signal output terminal to DTS μ-Com.
7	ALARM	O	Alarm signal output terminal.
8	N.F.P. 1	O	NFP control signal output terminal.
9	GND	—	GND terminal.
10	$\overline{\text{DOLBY B}}$	O	Dolby B NR ON/OFF signal output terminal.
11	$\overline{\text{DOLBY C}}$	O	Dolby C NR ON/OFF signal output terminal.
12	L.O. FAST	O	Gain control signal output terminal for M.S IC at CUE/REV.
13	FOR/$\overline{\text{REV}}$	O	Tape direction indicator output terminal.
14	O-MOTOR	O	Motor rotation control output terminal.
15	R-IN	O	Sub motor rotation control output terminal.
16	L-IN		
17	MTR FAST	I	Main motor rotation conttrol input terminal.
18	MS DET	I	Music sensor detection signal input terminal.
19	METAL	I	Metal tape detection terminal.
20	PACK IN	I	Pack in detection terminal.
21	REV DET	I	REV. reel rotate detection input terminal.
22	MODE SW	I	Mode detection input terminal.
23	FOR DET	I	FOR. reel rotate detection input terminal.
24	GND	—	GND terminal.
25	PAUSE SW	I	Pause mode detection input terminal.
26	MUTE	O	Audio mute signal output terminal.
27	NC	—	Pull up terminal.
28			
29	EV DATA	O	Serial data output terminal for Electrical volume (IC221).
30	EV CLK	O	Serial clock output terminal for Electrical volume (IC221).
31	PWR IC	O	Stand by control signal output terminal for Power IC (IC361).
32	PWR ON	O	Power control signal output terminal for Audio lighting.
33	REM ON	O	Function signal output terminal.
34	BUS OUT	O	Output terminal for Bus I/F signal.
35	$\overline{\text{RESET}}$	I	System reset input terminal.
36	REMOCON	I	Remocon data input terminal.
37	BUS IN	I	Input terminal for Bus I/F signal.
38	ACC DET	I	ACC detection signal input terminal.
39	BATT DET	I	Battery detection signal input terminal.

No.	Symbol	I/O	Terminal Description
40	V_{DD}	—	Power supply terminal.
41	X2	—	System clock OSC connection terminal. (8.38 MHz)
42	X1		
43	GND	—	GND terminal.
44	NC	—	No Connection terminal.
45			
46	GND	—	GND terminal.
47	$\overline{\text{DIMMER IN}}$	I	Dimmer input terminal.
48	IN INT	I	Mutual reset interrupt in signal input terminal.
49	MODEL	I	Model set up input terminal.
50	N.F.P. 2	O	NFP control signal output terminal.
51	BBE 1	O	Control output terminal forBBE. (SELECT-A)
52	BBE 2	O	Control output terminal forBBE. (SELECT-B)
53	BBE 3	O	Control output terminal forBBE. (SELECT-C)
54	NOSE DET	I	Nose set-up detection terminal.
55	AV_{DD}	—	Power supply terminal.
56	AV_{REF}		
57	LCD DO	I	Serial data output terminal to LCD driver (IC401).
58	LCD DI	O	Serial data input terminal to LCD driver (IC401).
59	LCD CLK	O	Serial clock output terminal to LCD driver (IC401).
60	LCD CE	O	Serial data synchronous signal output terminal to LCD driver (IC401).
61	$\overline{\text{LCD RST}}$	O	Reset signal output terminal to LCD driver (IC401).
62	DTS STS	I	Serial data input terminal from DTS μ-Com.
63	DTS CMD	O	Serial data output terminal to DTS μ-Com.
64	$\overline{\text{DTS CLK}}$	O	Serial clock output terminal to DTS μ-Com.

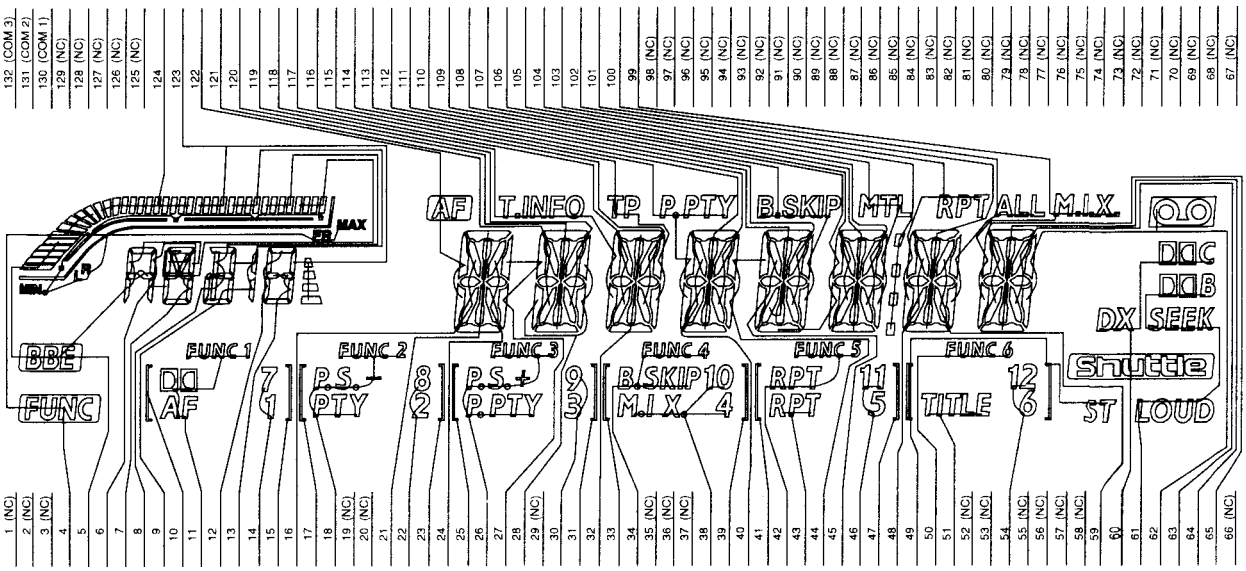
85088W02 : IC502

No.	Symbol	I/O	Terminal Description
1	LW	O	LW band selection output terminal.
2	LO/$\overline{\text{DX}}$	O	Local/DX control output terminal. H: During SEEK LOCAL
3	NC	—	No Connection terminal.
4	AV_{SS}	—	GND terminal for A/D converter.
5	$\overline{\text{LPF SW}}$	O	LPF time constant switching terminal at AF CHECK.
6	IF MUTE	O	IF Mute output terminal.
7	AV_{REF}	—	Reference voltage terminal for A/D Converter.
8	RXD	I	RDS Monitor input terminal (Pull-Up terminal).
9	TXD	O	RDS Monitor output terminal (No Connection terminal).
10	SYNC	O	SYNC signal output terminal (No Connection terminal).
11	PLL CLK	O	Clock output terminal to PLL.
12	PLL DATA	O	Data output terminal to PLL.

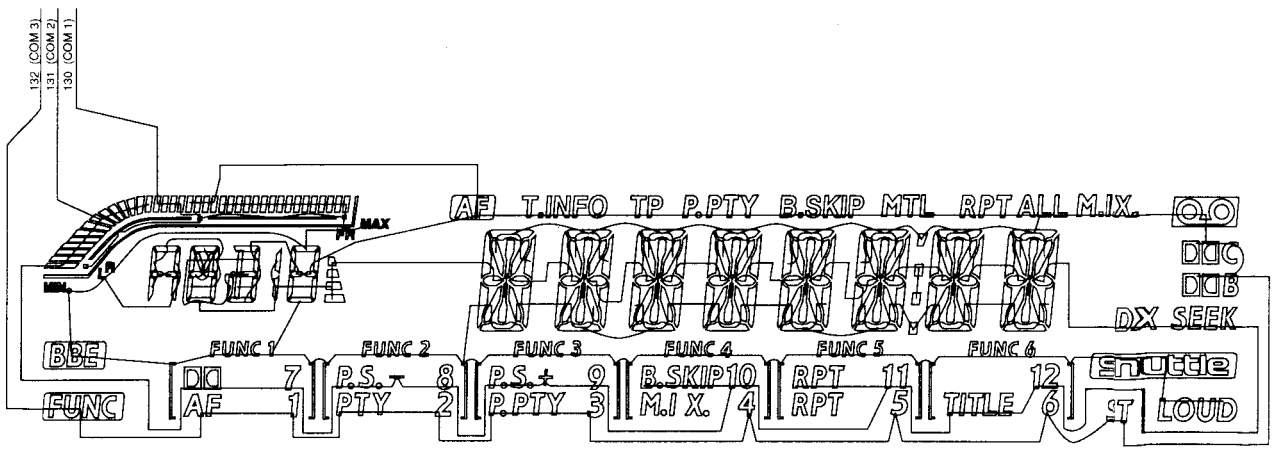
No.	Symbol	I/O	Terminal Description
13	PLL CE	O	Data communication control signal output terminal to PLL.
14	DTS MUTE	O	Audio mute output terminal.
15	DTS START	I	DTS data start input terminal.
16	DTS CMD	I	Command input terminal from Main μ-COM.
17	DTS STS	O	Status output terminal to Main μ-COM.
18	DTS CLK	I	Communication clock signal input terminal from Main μ-COM.
19 ~ 32	NC	—	No Connection terminal.
33	GND	—	GND terminal.
34 ~ 57	NC	—	No Connection terminal.
58	FM/$\overline{AM}$	O	FM/AM mode switching signal output terminal. H: FM
59	AUDIO IN	I	Audio xerox Detection terminal.
60	RESET	I	System reset input terminal.
61	RDS CLK	I	RDS clock input terminal from RDS Decoder.
62	RDS DATA	I	RDS data input terminal from RDS Decoder.
63	DTS CE	I	DTS CE input terminal.
64 ~ 66	NC	—	No Connection terminal.
67	50K REF	O	L.P.F. switching output terminal at RDS mode.
68	VDD	—	Power supply terminal.
69	X2	—	System clock OSC connection terminal. (4.9152 MHz)
70	X1		
71	GND	—	GND terminal.
72	NC	—	No Connection terminal.
73	PLL D-IN	I	PLL Data input terminal.
74	AV_{DD}	—	Analog power supply terminal for A/D converter.
75	AV_{REF}	—	Reference voltage terminal for A/D converter.
76	S.METER	I	Signal meter voltage input terminal.
77	ADJ-ON	I	Port detects adjoining rejection interference of station.
78	M.P	I	Port detects multi path interference of station.
79	ST	I	ST signal input terminal.
80	SD	I	Station detector signal input terminal.

LCD Display

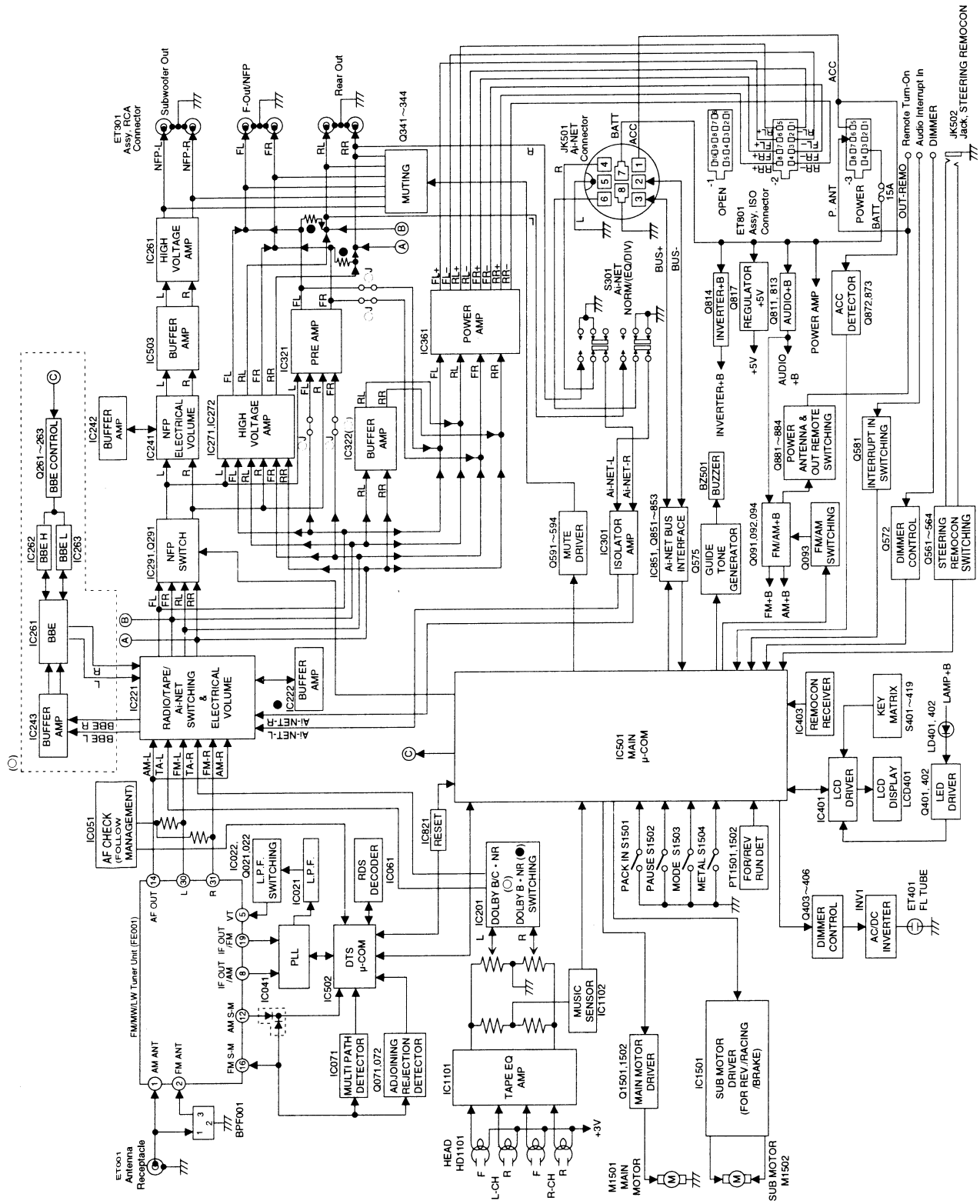
SEGMENT



COMMON

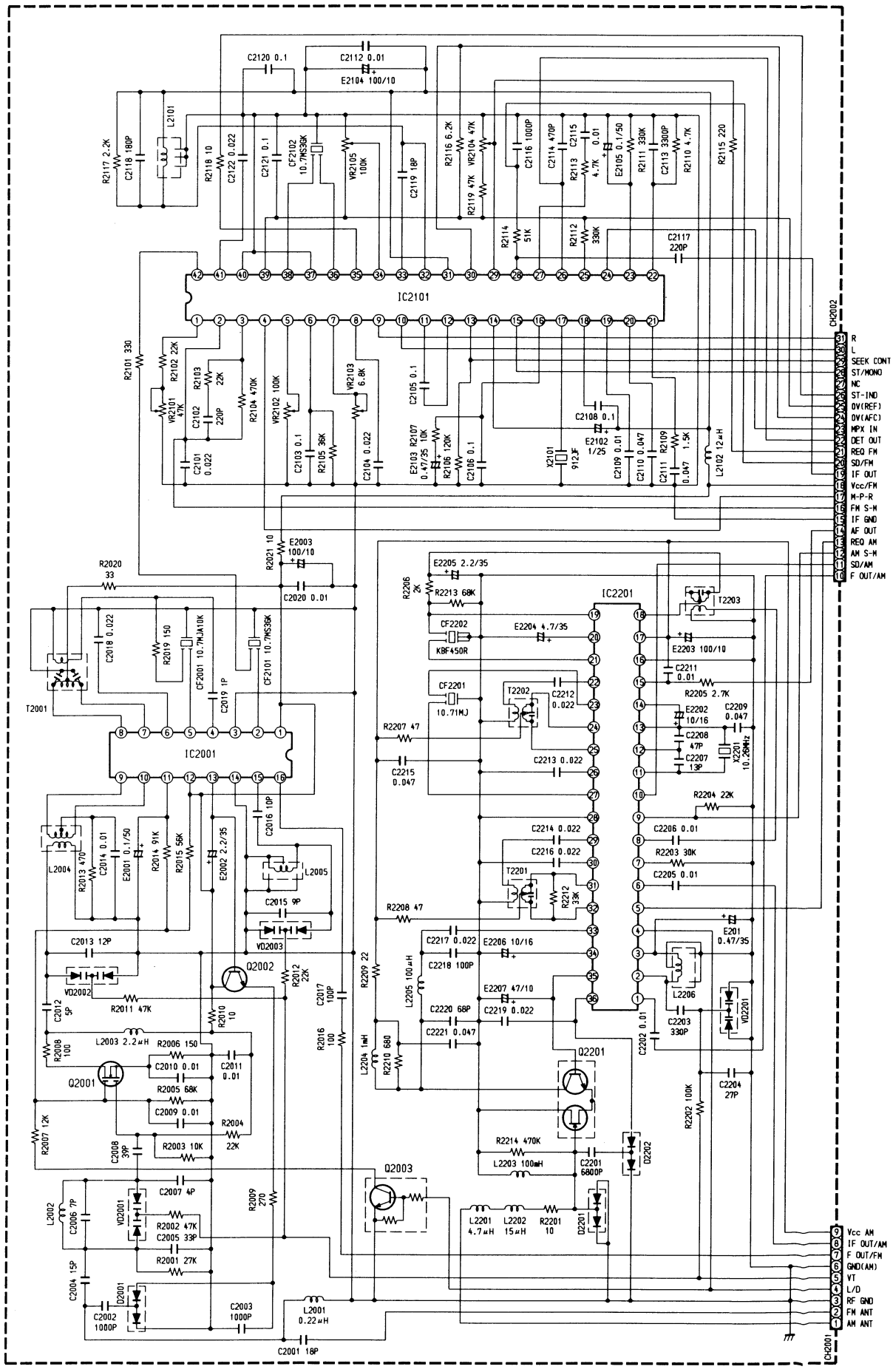


Block Diagram



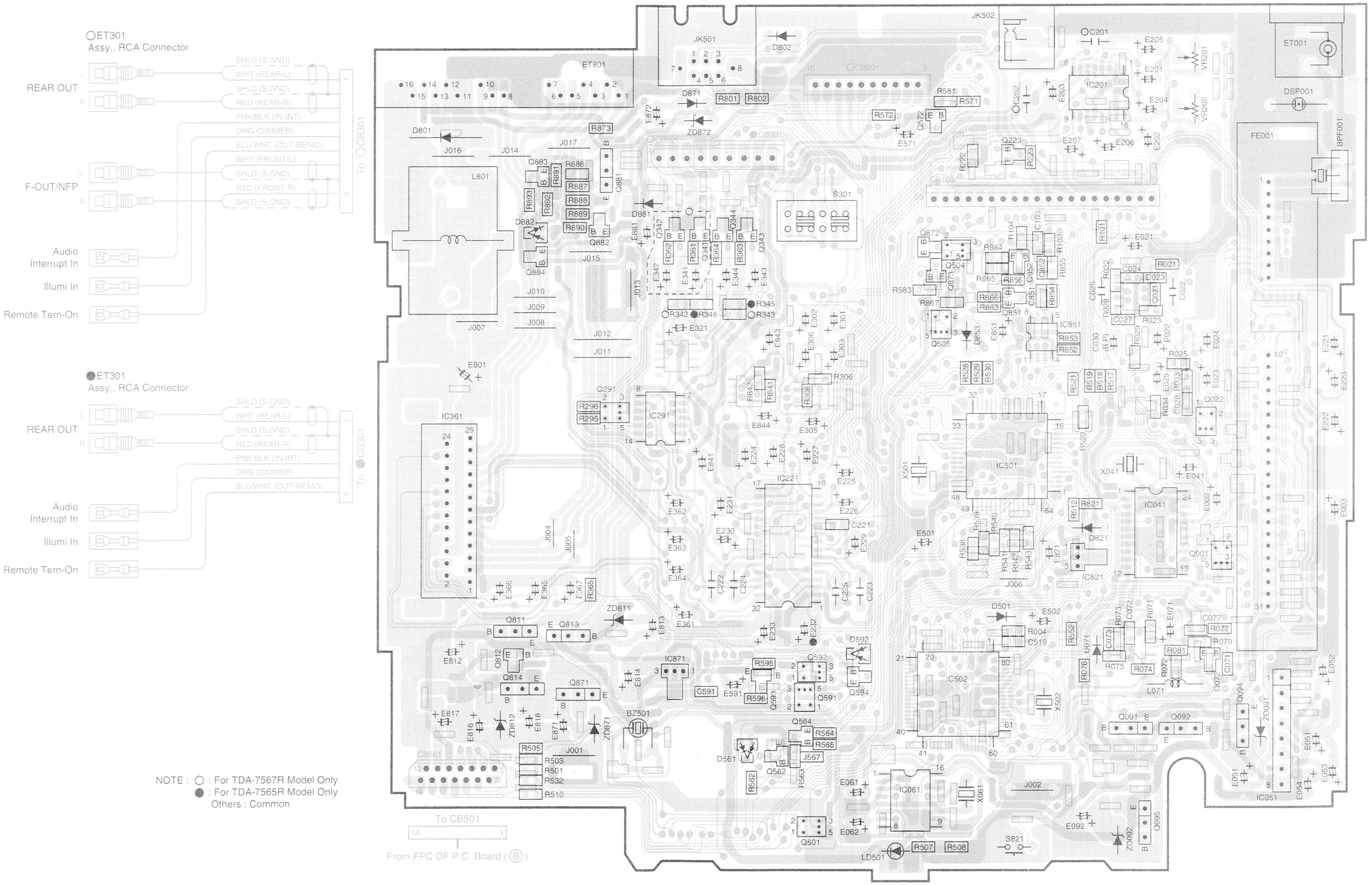
NOTE: ○ : For TDA-7567R Model Only, ● : For TDA-7565R Model Only, Others : Common

Tuner Schematic Diagram



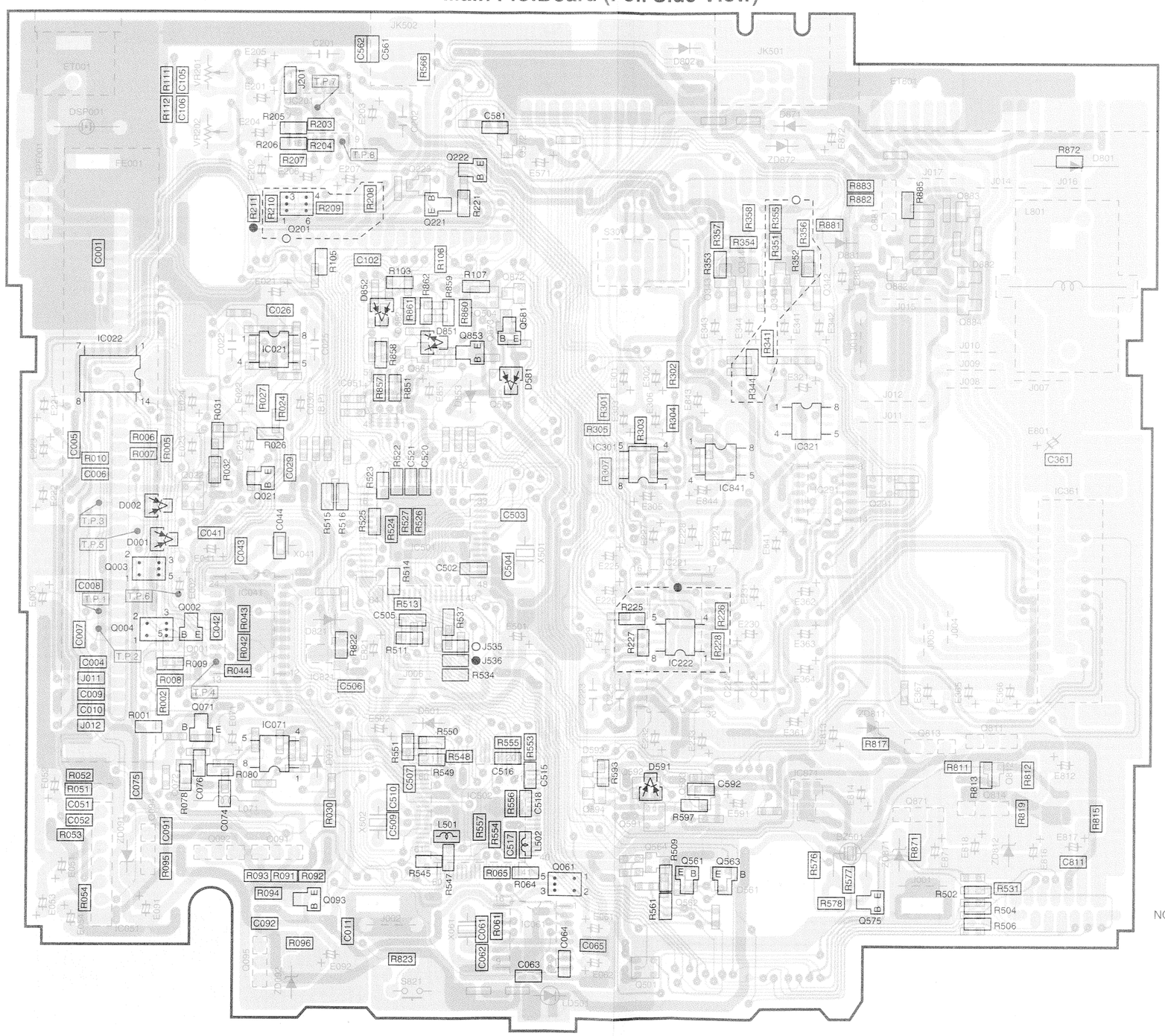
Parts Layout on P.C. Boards and Wiring Diagram (1/3)

Main P.C.Board (Component Side View)



Parts Layout on P.C. Boards and Wiring Diagram (2/3)

Main P.C.Board (Foil Side View)



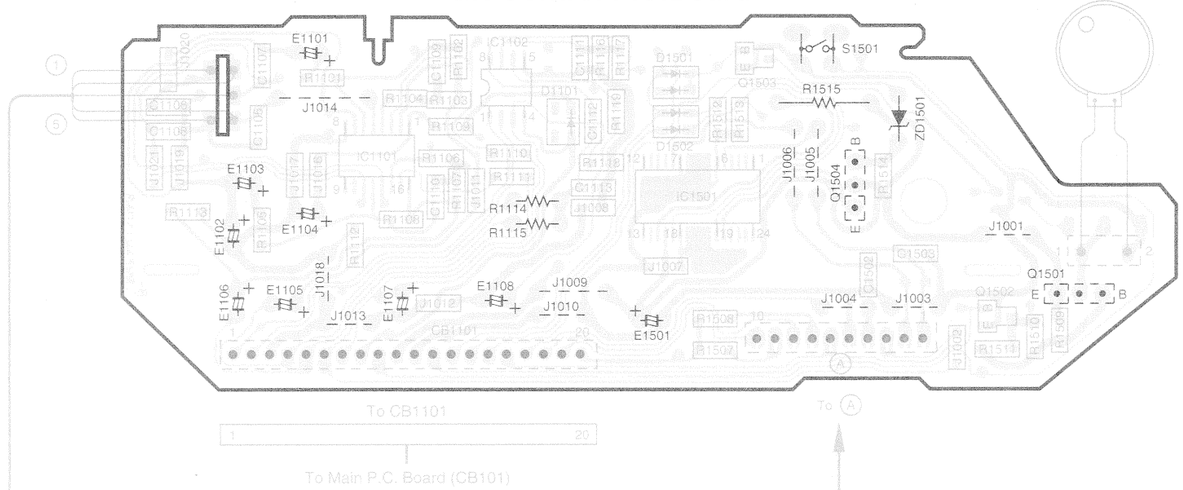
NOTE : ○ : For TDA-7567R Model Only
● : For TDA-7565R Model Only
Others : Common

Orange Color Pattern : Component Side Pattern
Blue Color Pattern : Foil Side Pattern

Parts Layout on P.C. Boards and Wiring Diagram (3/3)

All P.C. Boards viewed from soldered side.

GR Control P.C.Board



M1501
Assy., Main Motor

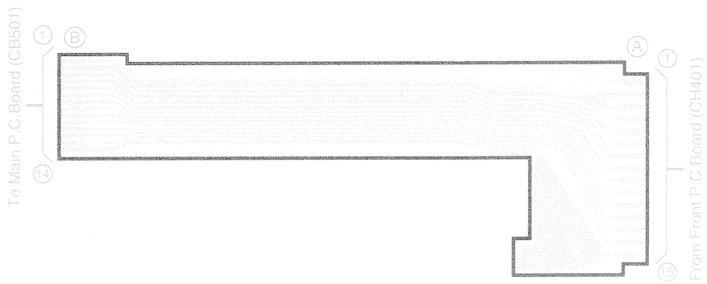
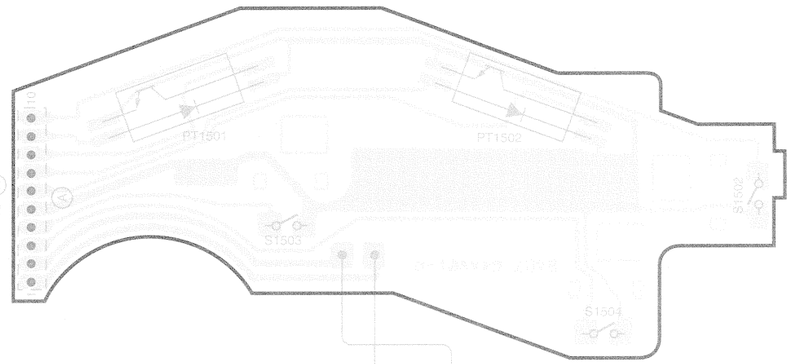
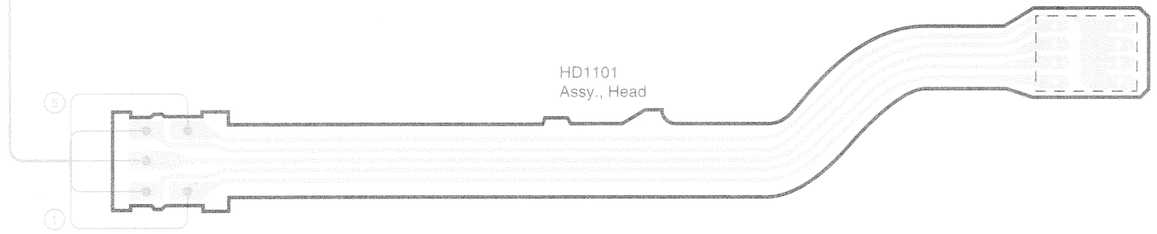


Photo P.C.Board



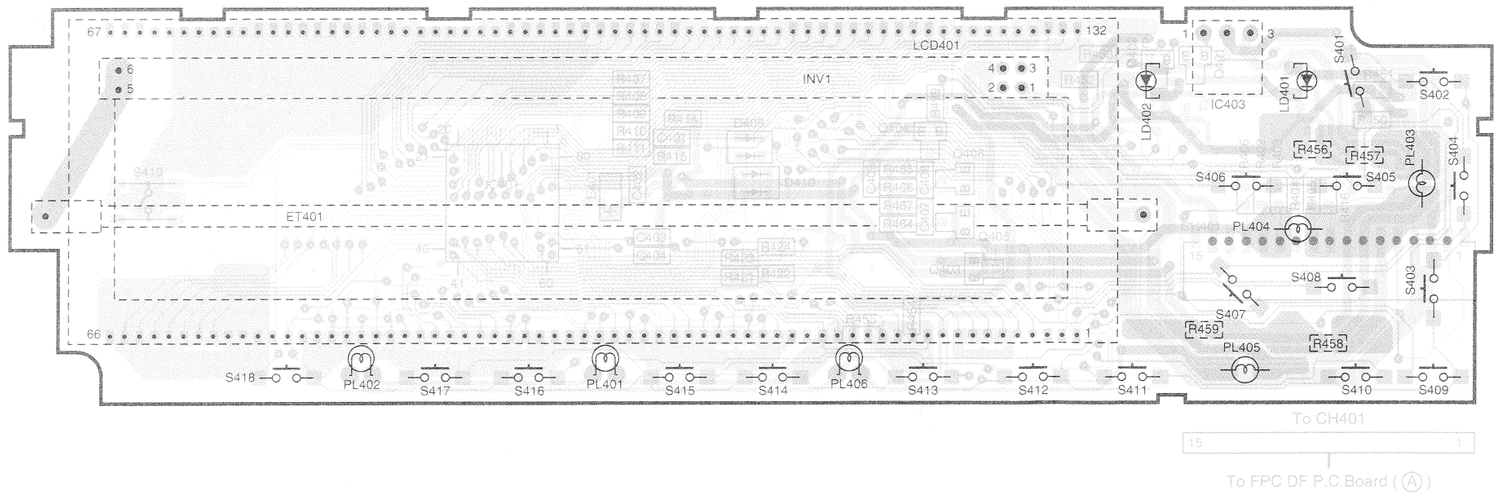
HD1101
Assy., Head



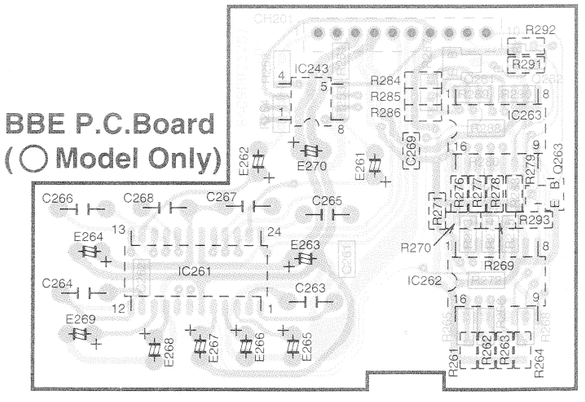
M1502
Assy., Loading Motor

NOTE : ○ : For TDA-7567R Model Only
Others : Common

Front P.C.Board



BBE P.C.Board (○ Model Only)



Orange Color Pattern : Component Side Pattern
Blue Color Pattern : Foil Side Pattern

Schematic Diagram (1/5)

IC	IC051	IC022	IC021	IC041	IC841(2/2)	IC221 IC222
Transistor (Q)	Q002 Q003	Q001 Q091 Q092 Q093 Q094	Q004 Q095 Q021	Q022	Q222 Q221 Q223	

Main P.C.Board (1/4)

ET001
Antenna Receptacle

BPF001 B.P.F

DSP001 DSP-201M

FE001
FM/MW/LW Tuner Unit, MB4R3010

AM ANT (1)
FM ANT (2)
GND(RF) (3)
L/D (4)
VT (5)
GND (6)
F OUT/FM (7)
IF OUT/AM (8)
AM•B (9)
F OUT/AM (10)
SD/AM (11)
AM S-M (12)
REQ/AM (13)
AF OUT (14)
GND(IF) (15)
FM S-M (16)
T.P.3 N-P-C (17)
FM•B (18)
T.P.5 IF.OUT/FM (19)
SD FM (20)
REQ FM (21)
DET OUT (22)
T.P.1 MPX IN (23)
T.P.2 OV(REF) (24)
OV (25)
ST-IND (26)
NC (27)
ST/MONO (28)
SEEK CONT (29)
L OUT (30)
R OUT (31)

D001 MA151WK
D002 MA151WK

R006 10K
R005 15K
R007 10K
R550 1K
C008 0.1
E003 0.68/50
R004 1K
C001 0.01
C004 0.022
C006 0.047
R010 2.2K
C007 100P
E002 22/16
SEEK CONTROL
Q002 DTC124K
FM REQ
Q003 FMG1
AM REQ
T.P.4
T.P.6
R044 1K

R001 10K
R002 10K
R030 100-1/4W
E024 10/16
E023 0.1/50
Q001 FMG1
IF CONTROL

IC022 MC14066BFL1
Vdd
Vss

C026 0.01
E021 100/16
C021 0.01
C022 0.1
R023 2.2K
R021 1K
R025 100
R026 18K
IC021 NJM4558M
C025 0.15
C023 0.01
C024 0.033
C030
R024 2.2K
2.2/50 (B.P)
R027 22K
E022 100/10
R028 1K
R029 5.6K
C027 0.033
R022 1K
L.P.F.

R031 10K
R032 2.2K-1/4W
E025 0.68/50
Q022 FMG1
R009 2.2K
R008 1K
IF CONTROL
Q021 DTC124K
C029 0.01
R034 1K
C028 0.01
R033 1K
L.P.F SWITCHING

IC051 M51143AL
Vcc
LIMITER AMP
SWITCH CIRCUIT
1/2Vcc
COMP(1) FF2
Q5
VREG
Q1 Q2
POWER ON RESET MUSIC SELECT START SENSOR SWITCH
Q3 Q4
COMP (2)
GND
C010 0.022
C009 0.022
C005 0.022
C051 0.1
C052 68P
R053 1M
R051 33K
R052 33K
E051 33/16
E052 0.1/50
E053 1/50
R054 91K
E054 10/16
AF CHECK (FOLLOW MANAGEMENT)

Q091 2SB1238
AM•B
R091 3.3K
R092 1K
C011 1000P
FM•B
Q092 2SB1238
R094 2.2K-1/4W
R093 10K
Q093 DTC124K
C091 0.022
RADIO•B
Q094 2SD2008Q
R095 330-1/4W
ZD091 HZS9C1L
E091 220/10
PLL•B
Q095 2SD1994A
R096 6.8K-1/4W
ZD092 HZS6A1L
C092 0.022
FM•B SWITCHING

IC041 LC7219
SYC
REFERENCE DIVIDER
PHASE DETECTOR CHARGE PUMP
X041 7.2MHz
C044 18P
C043 22P
SWALLOW COUNTER 1/16,1/17 4bit
12bit PROGRAMMABLE DIVIDER
SHIFT REGISTER LATCH
UNIVERSAL COUNTER
Vdd
Vss
R043 1K
R042 47K
C042 56P
C041 0.022
E041 22/16
PLL

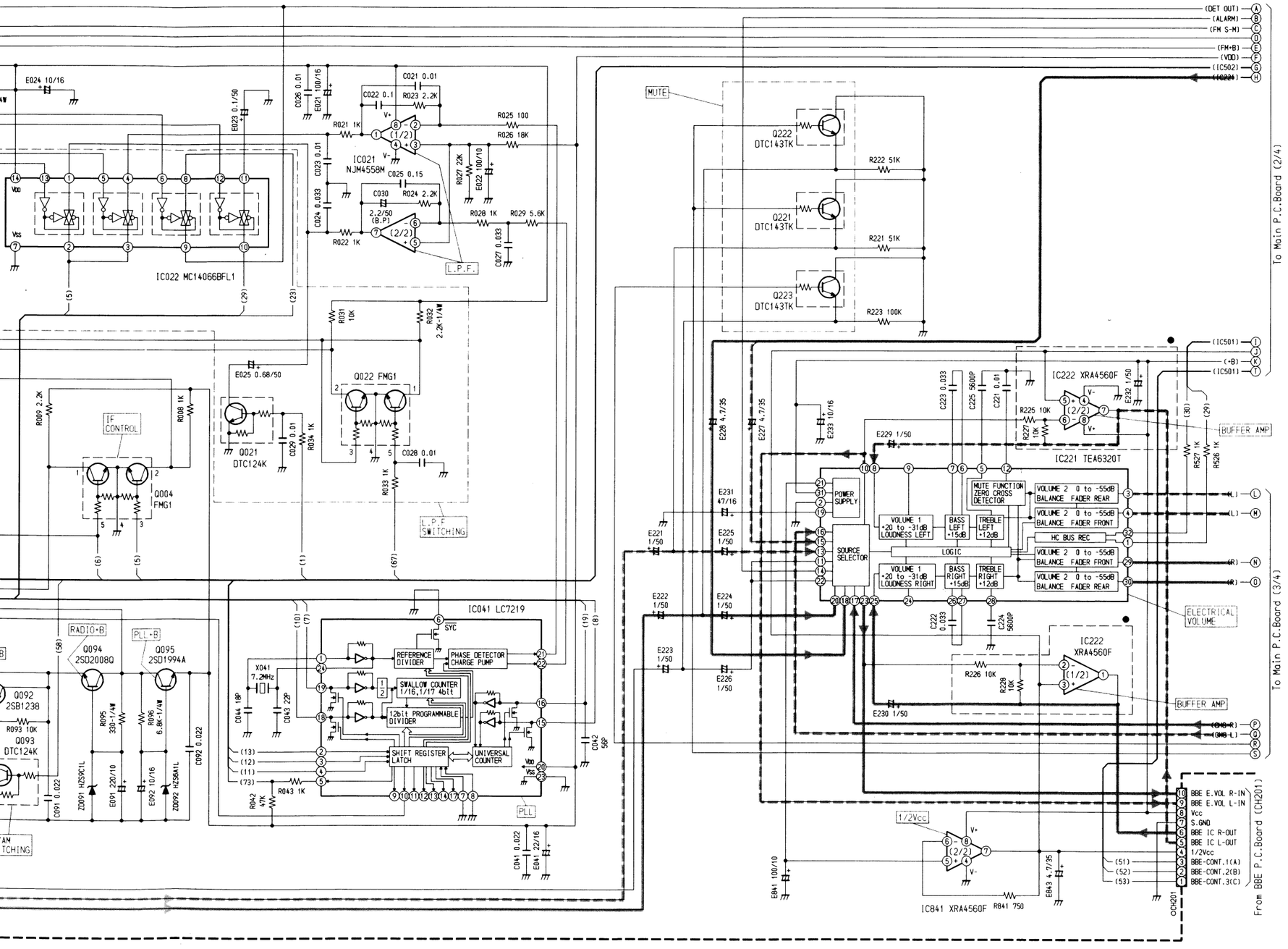
MUTE
Q222 DTC143TK
Q221 DTC143TK
Q223 DTC143TK
R222 51K
R221 51K
R223 100K

IC222 XRA4560F
C223 0.033
C225 5600P
C221 0.01
E232 1/50
R225 10K
R227 10K
E233 10/16
E228 4.7/35
E227 4.7/35
E229 1/50
IC221 TEA6320T
POWER SUPPLY
SOURCE SELECTOR
LOGIC
MUTE FUNCTION ZERO CROSS DETECTOR
VOLUME 2 0 to -55dB BALANCE FADER REAR
VOLUME 2 0 to -55dB BALANCE FADER FRONT
HC BUS REC
VOLUME 1 +20 to -31dB LOUDNESS LEFT
VOLUME 1 +20 to -31dB LOUDNESS RIGHT
BASS LEFT +15dB
TREBLE LEFT +12dB
BASS RIGHT +15dB
TREBLE RIGHT +12dB
E231 47/16
E225 1/50
E221 1/50
E222 1/50
E224 1/50
E223 1/50
E226 1/50
E230 1/50
C222 0.033
C224 5600P
IC222 XRA4560F
R226 10K
R228 10K
1/2Vcc
IC841 XRA4560F
R841 750
E841 100/10
E843 4.7/35

A | B | C | D | E | F | G | H

NOTE:
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1{,}000{,}000}$

IC022 IC021 IC041 Q222 Q221 Q223 IC841(2/2) IC221 IC222
Q092 Q093 Q094 Q004 Q095 Q021 Q022



IC021

1	13.11V	
2	0.55V/ 2.67V	Power ON/ BAND
3	2.67V	
4	0V	
5, 6	2.66V	
7	3.01V	
8	13.54V	

IC022

1-3	4.17V	
4	13.12V	
5	0V/ 13.08V	Power ON/ TAPE
6	13.63V	
7	0V	
8, 9	2.47V	
10	0.323V/ 2.71V	Power ON/ SEEK
11	0.322V	
12	13.63V	
13	12.41V	
14	13.64V	

IC041

1	PS	
2-4	0V/ PS	Power ON/ SEEK
5	4.76V	
6-8	0V	
9	NC	
10	4.75V	
11-14	NC	
15, 16	0V	
17	NC	
18	PS	AM
19	PS	FM
20	4.83V	
21, 22	2.65V	
23	0V	
24	PS	

IC051

1	1.383V	
2	1.36V	
3	0V	
4	1.298V	
5	0V	
6	9V	
7	5.03V	
8	9.08V	

IC221

1	5.04V	20	4.53V
2	0V	21	4.55V
3-6	4.54V	22	4.54V
7, 8	4.48V	23	4.55V
9	NC	24	NC
10	4.55V	25	4.48V
11	4.54V	26	4.54V
12	8.98V	27	4.55V
13-15	4.53V	28	4.54V
16, 17	4.55V	29, 30	4.55V
18	4.53V	31	9.04V
19	8.96V	32	5.04V

● IC222

1-3	4.55V
4	0V
5-7	4.55V
8	9.05V

Q003

1	0V/ 7.99V	Power ON/ AM SEEK
2	0V/ 1.058V	Power ON/ FM SEEK
3	4.48V/ 0V	Power ON/ SEEK
4	0V	
5	4.48V/ 0V	Power ON/ SEEK

IC841

1-3	4.55V
4	0V
5-7	4.55V
8	9.05V

	E	C	B	MODE
Q002	0V	0V	4.4V	
Q021	0V	0.17V/ 0V	0V/ 4.98V	Power ON/ LW
Q091	9.12V/ 9.1V	0V/ 9.06V	9.02V/ 8.42V	FM/ AM
Q092	9.12V/ 9.1V	9.03V/ 0.64V	8.41V/ 9.08V	FM/ AM
Q093	0V	0V/ 9.06V	5.18V/ 0V	FM/ AM
Q094	9.12V	14.1V	9.7V	
Q095	4.83V	14.1V	5.45V	
Q221	0V	0V	0V/ 13.37V	Power ON/ TAPE
Q222	0V	0V	0V/ 13.37V	Power ON/ TAPE
Q223	0V	0V	0V	Power ON

	1	2	3	4	5	MODE
Q001	13.66V	13.66V/ 0V	0V/ 4.69V	0V	0V	Power ON/ SEEK
Q004	4.45V	0V/ 4.71V	5.26V/ 0V	0V	0V	Power ON/ TUNER →TAPE
Q022	12.43V	0V	12.43V	0V	0V	

<Measuring Conditions>
1. Power Supply Voltage : DC14V
2. Measuring Meter : Digital Multi Meter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : No Signal Input
   FM : 98.1MHz
   AM : 999kHz (MW)
   TAPE: Blank Tape Play

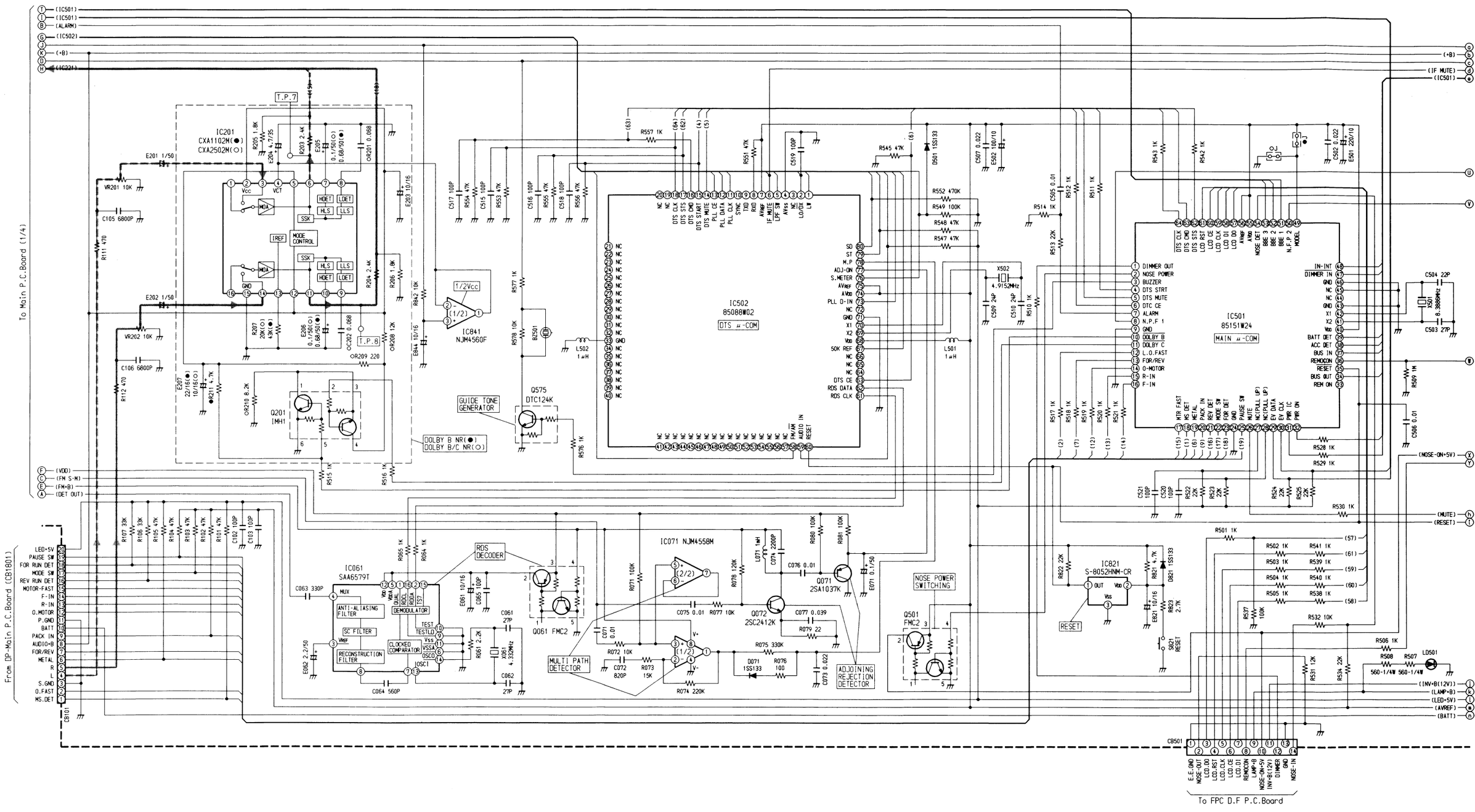
NOTE: ○: For TDA-7567R Model Only,
● : For TDA-7565R Model Only,
Others : Common.

TDA-7567R/
TDA-7565R

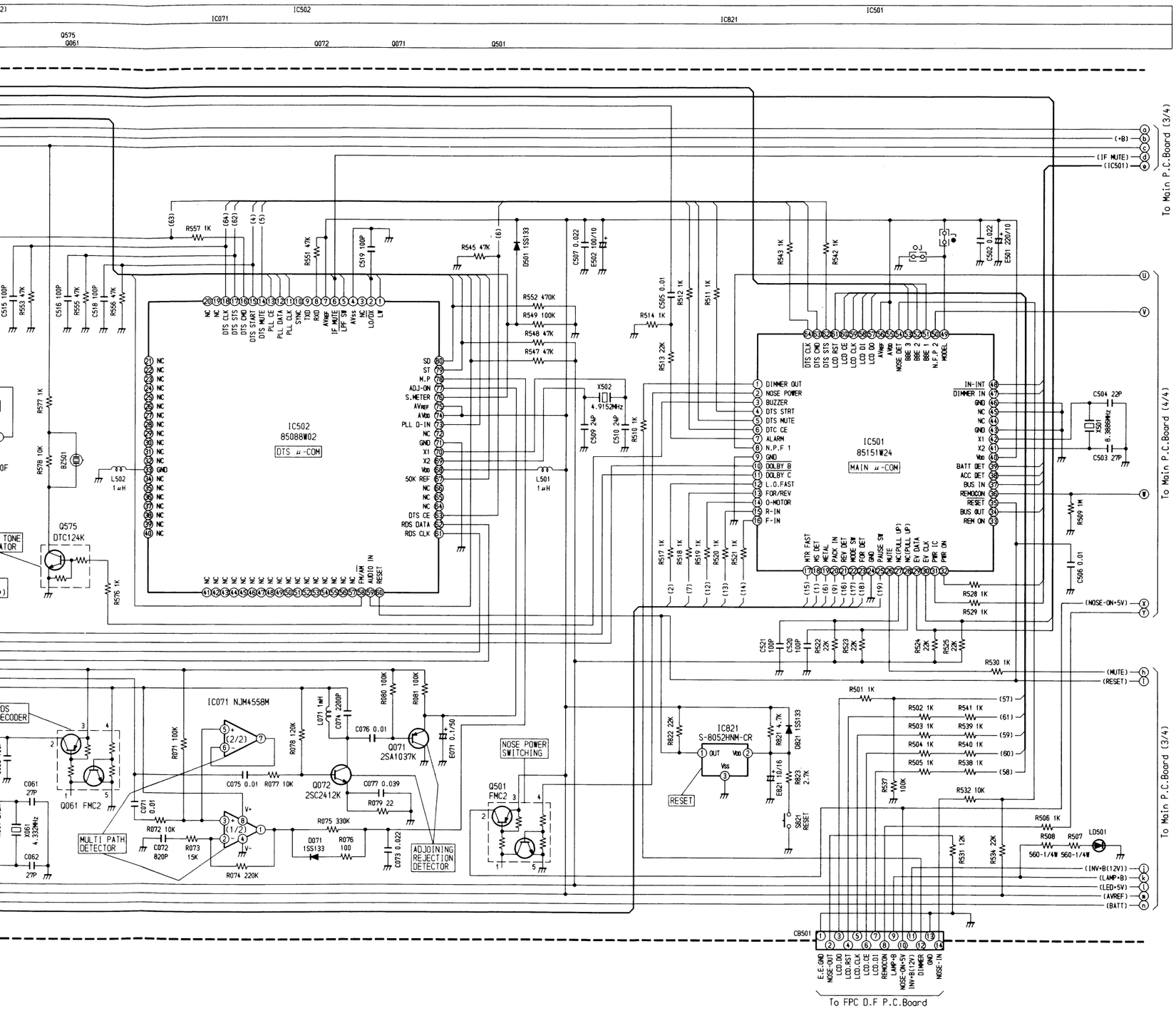
Schematic Diagram (2/5)

IC	IC201	IC061	IC841(1/2)	IC071	IC502	IC821	IC501
Transistor (Q)	Q201	Q575 Q061	Q072	Q071	Q501		

Main P.C.Board (2/4)



NOTE:
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1{,}000{,}000}$



IC061

1	NC	
2	PS	
3	2.39V	
4	2.38V	
5	4.78V	
6	0V	
7	2.37V	
8	2.42V	
9–11	0V	
12–14	PS	
15	NC	
16	PS	

IC071

1	4.86V	
2	4.87V	
3	4.82V	
4	0V	
5	4.82V	
6, 7	4.87V	
8	9.09V	

IC201

1	NC	TAPE
2	9.02V	TAPE
3	4.52V	TAPE
4	4.54V	TAPE
5	0V/ 3.94V/ 8.06V	TAPE/ DOLBY B/ DOLBY C
6	4.5V	TAPE
7–10	0V	TAPE
11	4.49V	TAPE
12	9.02V	TAPE
13	1.206V	TAPE
14	4.52V	TAPE
15	0V	TAPE
16	NC	TAPE

IC502

1	5.19V	LW	59	0V	
2	0V/ 5.06V	DX SEEK/ Local SEEK	60	5.2V	
3	NC		61, 62	PS	
4	0V		63	5.08V	
5	5.19V		64–66	NC	
6	0V		67	0V/ 5.18V	Power ON/ MUTE
7	5.2V		68	5.21V	
8	5.18V		69, 70	PS	
9	PS		71	0V	
10	0V		72	NC	
11–13	0V/ PS	Power ON/ SEEK	73	4.79V	
14	5.2V/ 0V	Power ON/ MUTE	74, 75	5.21V	
15–18	PS		76	2.75V/ 0V	FM/ AM
19–32	NC		77	4.82V	
33	0V		78	0.252V	
34–57	NC		79	5.02V/ 0V	MONO/ ST
58	5.19V/ 0V	FM/ AM	80	0V/ 5.03V	FM/ AM

IC501

1	5.19V/ 0V	DIMMER ON/ OFF	32	5.21V	
2	5.19V		33	NC	
3	PS/ 0V	BUZZER ON/ OFF	34	0V/ PS	Power ON/ SOURCE
4	PS		35	5.2V	
5	5.22V/ 0V	Power ON/ MUTE	36	5.04V/ PS	Power ON/ REMOCON
6	5.2V		37	0V/ PS	Power ON/ SOURCE
7	0V		38	4.79V	
8	5.2V/ 0V	Power ON/ FADER-Rch	39	4.81V	
9	0V		40	5.21V	
10	5.2V/ 0V	DOLBY C/ DOLBY B	41, 42	PS	
11	5.2V/ 0V	DOLBY B/ DOLBY C	43	0V	
12	0V/ 5.18V	TAPE PLAY/ TAPE FOR, (REV)	44	NC	
13	0V		45, 46	0V	
14	0V/ 5.17V	Power ON/ TAPE PLAY	47	0V/ 5.12V	DIMMER ON/ OFF
15–17	0V		48	5.1V/ 0V	IN-INT ON/ OFF
18	5.02V		49	0V	
19	4.94V	METAL TAPE PLAY	50	0V/ 5.19V	Power ON/ SUB-W ON FADER-Rch
20	5.18V/ 0V	PACK IN/ OUT	51	0V/ 5.19V	BBE ON/ OFF
21	PS	TAPE FOR, (REV)	52	5.19V	
22	5.19V	TAPE PLAY	53	0V/ 5.19V	BBE ON/ OFF
23	PS	TAPE FOR, (REV)	54	2.6V	
24	0V		55, 56	5.21V	
25	5.19V/ 0V	TAPE PLAY/ PAU	57	4.78V	
26	5.2V/ 0V	MUTE ON/ OFF	58–60	PS	
27, 28	0V		61	5.19V	
29, 30	5.04V/ PS	Power ON/ VOL UP, DOWN	62–64	PS	
31	5.22V				

IC821

1	5.18V	
2	5.17V	
3	0V	

Q201

1	0V/ 3.91V	Power ON, DOLBY C/ DOLBY B
2	5.04V/ 5.22V/ 0V	Pwer ON/ DOLBY B/ DOLBY C
3	0V/ 3.91V	Power ON, DOLBY C/ DOLBY B
4	0V/ 3.99V/ 8.17V	Pwer ON/ DOLBY B/ DOLBY C
5	5.06V/ 0V	Power ON, DOLBY C/ DOLBY B
6	0V	

	E	C	B	MODE
Q071	4.77V	0V	4.77V	
Q072	0.335V	8.7V	0.934V	
Q575	0V	PS/ 14.1V	PS/ 0V	BUZZER ON/ OFF

	1	2	3	4	5	MODE
Q061	NC	4.81V	4.89V	9.13V	0V	
Q501	NC	5.14V	5.19V	5.16V	0V	

<Measuring Conditions>
1. Power Supply Voltage : DC14V
2. Measuring Meter : Digital Multi Meter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : No Signal Input
   FM : 98.1MHz
   AM : 999kHz (MW)
   TAPE: Blank Tape Play

NOTE: ○ : For TDA-7567R Model Only,
● : For TDA-7565R Model Only,
Others : Common.

Schematic Diagram (3/5)

IC	IC851(2/2)	IC851(1/2)	IC871	IC361	IC301
Transistor (Q)	Q581 Q572 Q505	Q593 Q504 Q594	Q872 Q851 Q852 Q873 Q853 Q592 Q871 Q591 Q814	Q813 Q884 Q883 Q812 Q882 Q811 Q881	

Main P.C.Board (3/4)

To Main P.C.Board (1/4)

To Main P.C.Board (2/4)

To Main P.C.Board (1/4) (2/4)

(L) (R) (R) (L) (L) (R) (MUTE) (IF MUTE) (+B) (BATT) (LAMP+B) (AVREF) (LED+5V) (IC501) (RESET) (ENG-L) (ENG-R) (INV+B(12V))

Q592 FMC2 Q591 FMC2 Q594 DTC124K Q593 DTC124K Q591 DAN202K Q592 DAN202K

IC361 TDA7384 Vcc1 Vcc2 NC SVR TAB

E363 0.33/50 E364 0.33/50 E362 0.33/50 E361 0.33/50 E366 1/50 E365 47/16 R365 10K E367 1/50 C361 0.1 E801 4700/16

ET801 Assy.,ISO Connector (-1:OPEN,-2:SPEAKER,-3:POWER) CH801 (REAR L+) (FRONT L+) (FRONT R+) (REAR R+) (REAR R-) (FRONT R-) (FRONT L-) (REAR L-) (ACC) (P.ANT) (BATT) (GND)

L801 CHOKE D801 DSK34

Q581 DTA143 D581 MA152WK C581 0.01 R581 10K R583 47K R571 47K R572 10K E571 1/50 Q572 DTC124K

INTERRUPT IN SWITCHING POWER ON SWITCHING DIMMER CONTROL

Q505 FMC3 Q504 FMC2 R597 220 E591 10/16 C591 100P R595 10K R596 15K R593 10K C592 0.1

Q872 DTA124 Q873 DTC114TK IC871 S-8054ALR-LN (OUT Vdd Vss) Q871 2SD2008Q R871 3.9K-1/4W E871 1/50 ZD871 HZS6B1L R873 4.7K-1/4W R872 4.7K-1/4W E872 0.1/50 ZD872 HZS7B1L D871 1SS133 D853 1SS133 BAT DETECTION

Q813 2SC3421 E814 330/10(○) 220/10(●) R817 470-1/4W(○) 330-1/4W(●) ZD811 HZS9C1L E813 10/16 E812 47/35 Q811 2SB1243 R811 10K-1/4W R812 1.2K-1/4W R813 1.2K-1/4W Q812 DTC143XK

POWER ANTENNA & ANT REMOTE SWITCHING

R801 270-1/4W R802 270-1/4W D802 MPG06G

(S.GND) (GND) (BATT) JK501 Ai-NET Connector (BUS-) (BUS+) (ACC)

S301 Ai-NET・NORM /(EQ/DIV)

IC851 NJM2903M (2/2) R853 10K R852 10K R854 4.7K C851 100P R856 1.2K Q851 2SB709A D851 DAP202K Q853 DTA124 R863 2.2K R865 1.5K R859 39-1/4W R860 39-1/4W R861 39-1/4W R862 39-1/4W R855 6.8K C852 27P D852 DAN202K Q852 2SD601A R866 1.5K R864 2.2K

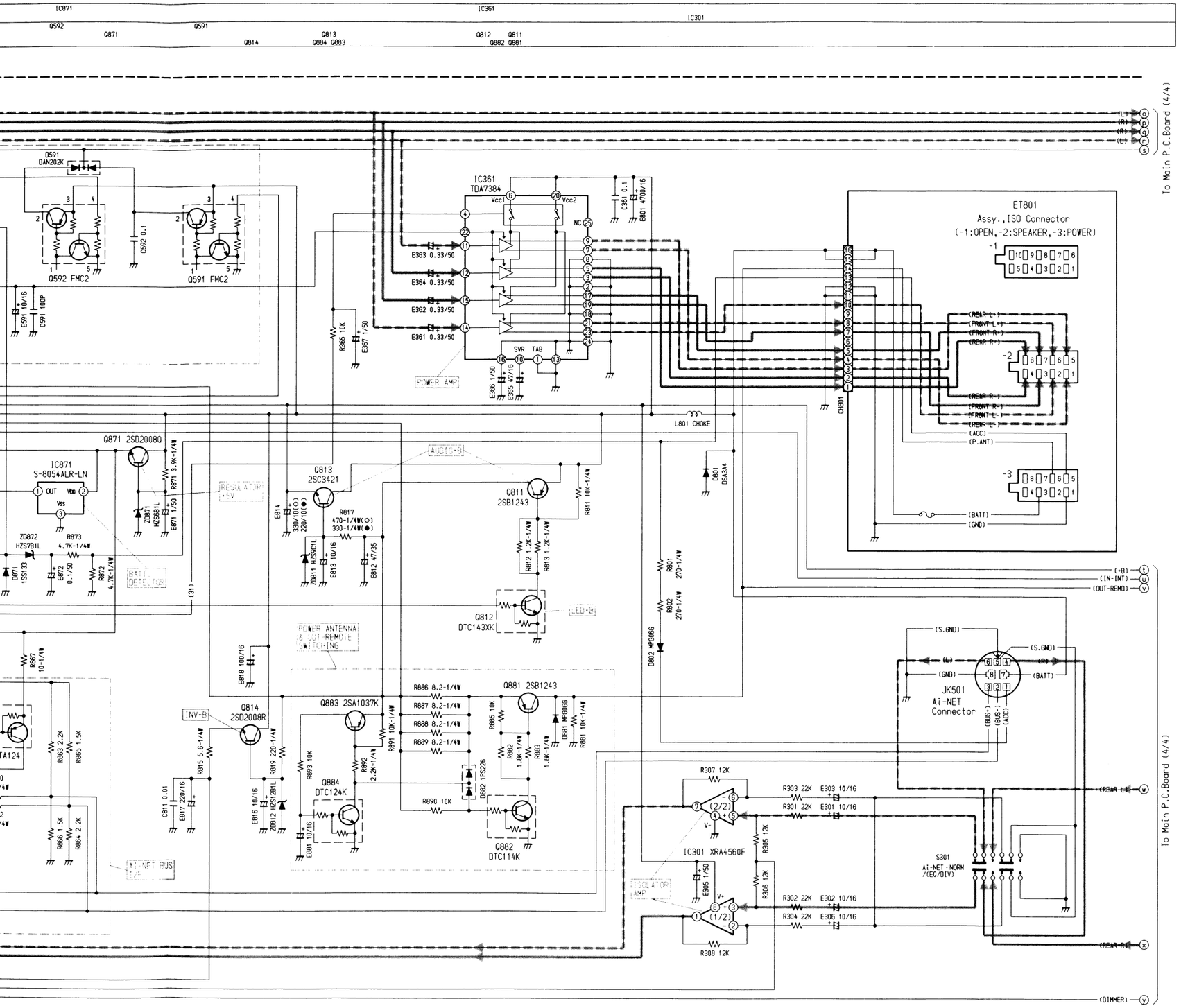
IC851 NJM2903M (1/2) R851 6.8K E851 10/16 R857 10K R858 10K

Q814 2SD2008R R815 5.6-1/4W C811 0.01 E817 220/16 R819 220-1/4W E816 10/16 ZD812 HZS12B1L E818 100/16 E881 10/16

Q883 2SA1037K R886 8.2-1/4W R887 8.2-1/4W R888 8.2-1/4W R889 8.2-1/4W R891 10K-1/4W R893 10K R892 2.2K-1/4W Q884 DTC124K R890 10K D882 1PS226 Q881 2SB1243 R882 1.8K-1/4W R883 1.8K-1/4W R885 10K D881 MPG06G R881 10K-1/4W Q882 DTC114K

IC301 XRA4560F (1/2) (2/2) R307 12K R308 12K R303 22K R301 22K R302 22K R304 22K E303 10/16 E301 10/16 E302 10/16 E306 10/16 E305 1/50 R305 12K R306 12K

(REAR R+) (REAR R-) (DIMMER)



IC301

1-3	4.55V
4	0V
5-7	4.55V
8	9.05V

IC361

1, 2	0V	15	7.16V
3	7.35V	16	7.23V
4	5.23V	17	7.27V
5	7.33V	18	0V
6	14.29V	19	7.28V
7	7.27V	20	14.29V
8	0V	21	7.29V
9	7.31V	22	5.44V
10	7.25V	23	7.29V
11, 12	7.16V	24	0V
13	0V	25	NC
14	7.17V		

IC851

1	0V	BUS IN
2	3.06V	
3	2.03V	
4	0V	
5	2.56V	
6	0V	BUS OUT
7, 8	5.11V	

IC871

1	4.8V
2	5.19V
3	0V

	E	C	B	MODE
Q581	5.13V/ 5.14V	5.12V/ 0V	3.31V/ 5.13V	IN-INT ON/ OFF
Q593	0V	0V/ 5.43V	4.79V/ 0V	MUTE ON/ OFF
Q594	0V	0V	4.64V	
Q811	14.29V	14.2V	13.59V	
Q812	0V	0V	5.05V	
Q813	9.1V	14.31V	9.68V	
Q814	12.62V	14.29V	13.22V	
Q851	5.14V	2.05V	5.14V	
Q852	0V	3.09V	0V	
Q853	5.22V	2.05V	5.21V	
Q871	5.22V	14.22V	5.77V	
Q872	4.82V	4.8V	0V	
Q873	0V	0V	4.64V	
Q881	12.94V/ 14.19V	12.83V/ 0V	12.22V/ 14.17V	P.ANT, O.REM/ 500mA OVER
Q882	0V	0V/ 14.13V	7.19V/ 0.654V	P.ANT, O.REM/ 500mA OVER
Q883	13.87V/ 14.14V	0.6V/ 14.13V	13.39V/ 13.38V	P.ANT, O.REM/ 500mA OVER
Q884	0V	13.28V/ 0V	0.6V/ 9.55V	P.ANT, O.REM/ 500mA OVER

	1	2	3	4	5	MODE
Q504	NC	5.15V	5.23V	4.8V	0V	
Q505	NC	5.06V	5.23V	4.77V	0V	
Q591	NC	14.15V/ 0V	14.26V	4.28V/ 0V	0V	MUTE ON/ OFF
Q592	NC	14.15V/ 0V	14.26V	4.28V/ V	0V	MUTE ON/ OFF

<Measuring Conditions>

1. Power Supply Voltage : DC14V
2. Measuring Meter : Digital Multi Meter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : No Signal Input
   FM : 98.1MHz
   AM : 999kHz (MW)
   TAPE: Blank Tape Play

NOTE: ○: For TDA-7567R Model Only,
●: For TDA-7565R Model Only,
Others : Common.

NOTE:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1{,}000{,}000}$

TDA-7567R/
TDA-7565R

Schematic Diagram (4/5)

IC	IC321		IC291			IC262		IC263
Transistor (Q)	Q561	Q562	Q564	Q563 Q341 Q342 Q343 Q344 Q291	IC243	Q261 Q262 Q263		IC261

Main P.C.Board (4/4)

To Main P.C.Board (2/4)

(NOSE-ON+5V)

R561 22K

Q561 DTC114K

D561 DAN202K

R562 22K

Q563 DTC114K

C561 1500P

R563 10K

Q562 DTC114K

STEERING REMOCON SWITCHING

Q564 2SA1037K

R565 2.2K

R566 100

R564 3.3K

C562 0.1

CB502

JK502 Jack, Steering Remocon

ET301 Assy.,RCA Connector

MUTE

IC321 XRA4560F

PRE AMP

E321 10/16

R341 220 E341 10/16 R355 100

Q341 2SD1328

R361 5.1K

R351 22K

Q342 2SD1328

R362 5.1K

R352 22K

R342 220 E342 10/16 R356 100

●R345 220

OR343 220 E343 10/16 R357 100

Q343 2SD1328

R363 5.1K

R353 22K

Q344 2SD1328

R364 5.1K

R354 22K

OR344 220 E344 10/16 R358 100

●R346 220

To Main P.C.Board (3/4)

(+B)

(L)

(R)

R295 22K

R296 22K

Q291 FMG1

Vdd

Vss

IC291 MC14066BFL1

N.F.P. SWITCHING

To Main P.C.Board (2/4)

(REAR-L)

(REAR-R)

(OUT-REMO)

(IN-INT)

(DIMMER)

CB301

(FRONT-R) R
(S.GND)
(FRONT-L) L
OF-Out/NFP

(OUT-REMO) Remote Turn-On
(DIMMER) Illumi In
(IN-INT) Audio Interrupt in

(REAR-R) R
(S.GND)
(REAR-L) L
Rear Out

○BBE P.C.Board

R263 22K
R262 36K
R266 22K
R261 36K
R265 22K
R264 36K
R268 22K
R271 47K
R272 22K
R269 47K
R275 22K
R270 100K
R273 22K
R274 22K

IC262 MC14051BFL1

BBE-H

Vdd
INH
A
B
C
Vss
VEE
X0
X1
X2
X3
X4
X5
X6
X7

LEVEL CONVERTER

BINARY 1-OF-8 DECODER WITH INHIBIT

X

R278 22K
R277 22K
R276 33K
R280 22K
R279 43K
R283 22K
R286 43K
R287 22K
R284 100K
R290 22K
R285 100K
R288 22K
R289 22K

C269 0.01

IC263 MC14051BFL1

E263 4.7/35

E264 4.7/35

C265 0.01
C267 0.047
C268 0.047
C266 0.01

IC261 BA3884F

R252 10K
R254 10K

E270 1/50

IC243 XRA4560F

BUFFER AMP

E262 4.7/35

E261 4.7/35

R251 10K
R253 10K

Q261 DTC124K
Q262 DTC124K
Q263 DTC124K

R291 22K
R292 22K
R293 22K

HPF
LPF
VCA
LO MID HI
CTL

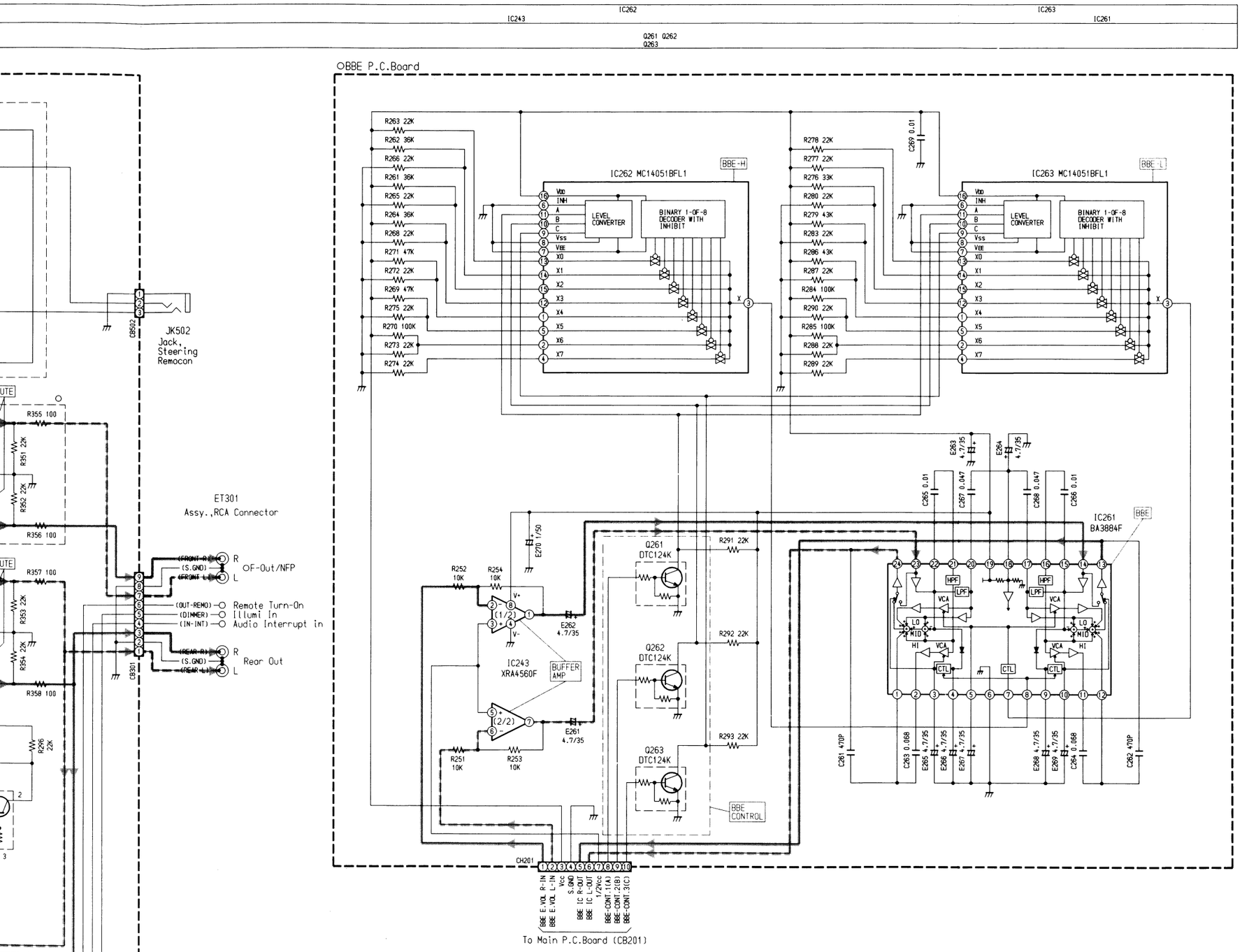
C261 470P
C263 0.068
C265 4.7/35
C266 4.7/35
C267 4.7/35
C268 4.7/35
C269 4.7/35
C264 0.068
C262 470P

BBE CONTROL

CH201

1 BBE E.VOL R-IN
2 BBE E.VOL L-IN
3 Vcc
4 S.GND
5 BBE IC R-OUT
6 BBE IC L-OUT
7 1/2Vcc
8 BBE CONT.1(A)
9 BBE CONT.2(B)
10 BBE CONT.3(C)

To Main P.C.Board (CB201)



○ IC243

1-3	4.5V
4	0V
5-7	4.5V
8	8.95V

○ IC261

1, 2	4.58V	14	4.57V
3	6.43V	15, 16	4.58V
4	4.5V	17	4.57V
5	6.4V	18	4.54V
6	0V	19	9.03V
7, 8	9.01V	20	4.57V
9	4.5V	21, 22	4.58V
10	6.43V	23	4.57V
11-13	4.58V	24	4.59V

○ IC262

1	2.81V	
2	1.632V	
3	8.98V	
4	0V	
5	2.88V	
6-8	0V	
9-11	8.98V/ 0V	BBE ON/ OFF
12	3.41V	
13	8.97V	
14	3.4V	
15	3.39V	
16	9V	

○ IC263

1	3.04V	
2	1.49V	
3	8.98V	
4	0V	
5-8	1.621V	
9-11	8.99V/ 0V	BBE ON/ OFF
12	3.08V	
13, 14	8.99V	
15	3.57V	
16	9.01V	

IC291

1-4	4.53V	
5	0V/ 8.98V	Power ON/ SUB-W ON FADER-Rch
6	8.99V/ 0V	Power ON/ SUB-W ON FADER-Rch
7	0V	
8-11	4.53V	
12	0V/ 8.98V	Power ON/ SUB-W ON FADER-Rch
13	8.99V/ 0V	Power ON/ SUB-W ON FADER-Rch
14	9.01V	

IC321

1-3	4.55V	
4	0V	
5-7	4.55V	
8	9.04V	

	E	C	B	MODE
○ Q261	0V	9V/ 0V	0V/ 5.2V	BBE ON/ OFF
○ Q262	0V	9V/ 0V	0V/ 5.2V	BBE ON/ OFF
○ Q263	0V	9V/ 0V	0V/ 5.2V	BBE ON/ OFF
○ Q341	0V	0V	0.698V/ 0V	MUTE ON/ OFF
○ Q342	0V	0V	0.698V/ 0V	MUTE ON/ OFF
Q343	0V	0V	0.698V/ 0V	MUTE ON/ OFF
Q344	0V	0V	0.698V/ 0V	MUTE ON/ OFF
Q561	0V	5.05V/ PS	0V/ PS	Power ON/ Remocon
Q562	0V	0V/ PS	0V	Power ON/ Remocon
Q563	0V	0V/ PS	1.865V/ PS	Power ON/ Remocon
Q564	5.15V	0V	5.15V	
Q572	0V	0V/ 5.11V	9.69V/ 0V	DIMMER ON/ OFF

	1	2	3	4	5	MODE
Q291	0V/ 8.98V	8.98V/ 0V	0V/ 5.19V	0V	5.18V/ 0V	Power ON/ SUB-W ON FADER-Rch

<Measuring Conditions>
1. Power Supply Voltage : DC14V
2. Measuring Meter : Digital Multi Meter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : No Signal Input
   FM : 98.1MHz
   AM : 999kHz (MW)
   TAPE: Blank Tape Play

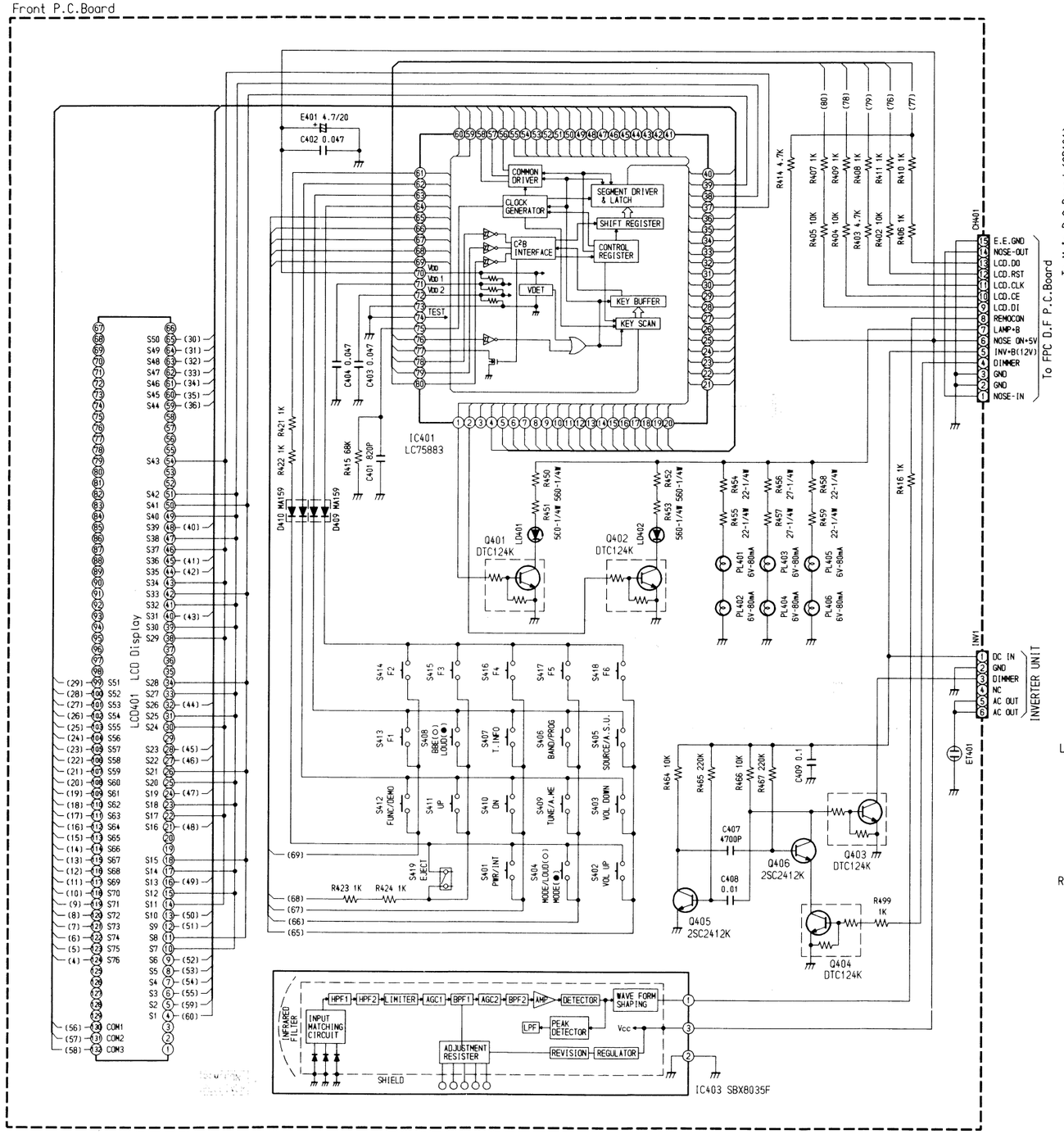
NOTE: ○ : For TDA-7567R Model Only,
● : For TDA-7565R Model Only,
Others : Common.

NOTE:
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1{,}000{,}000}$

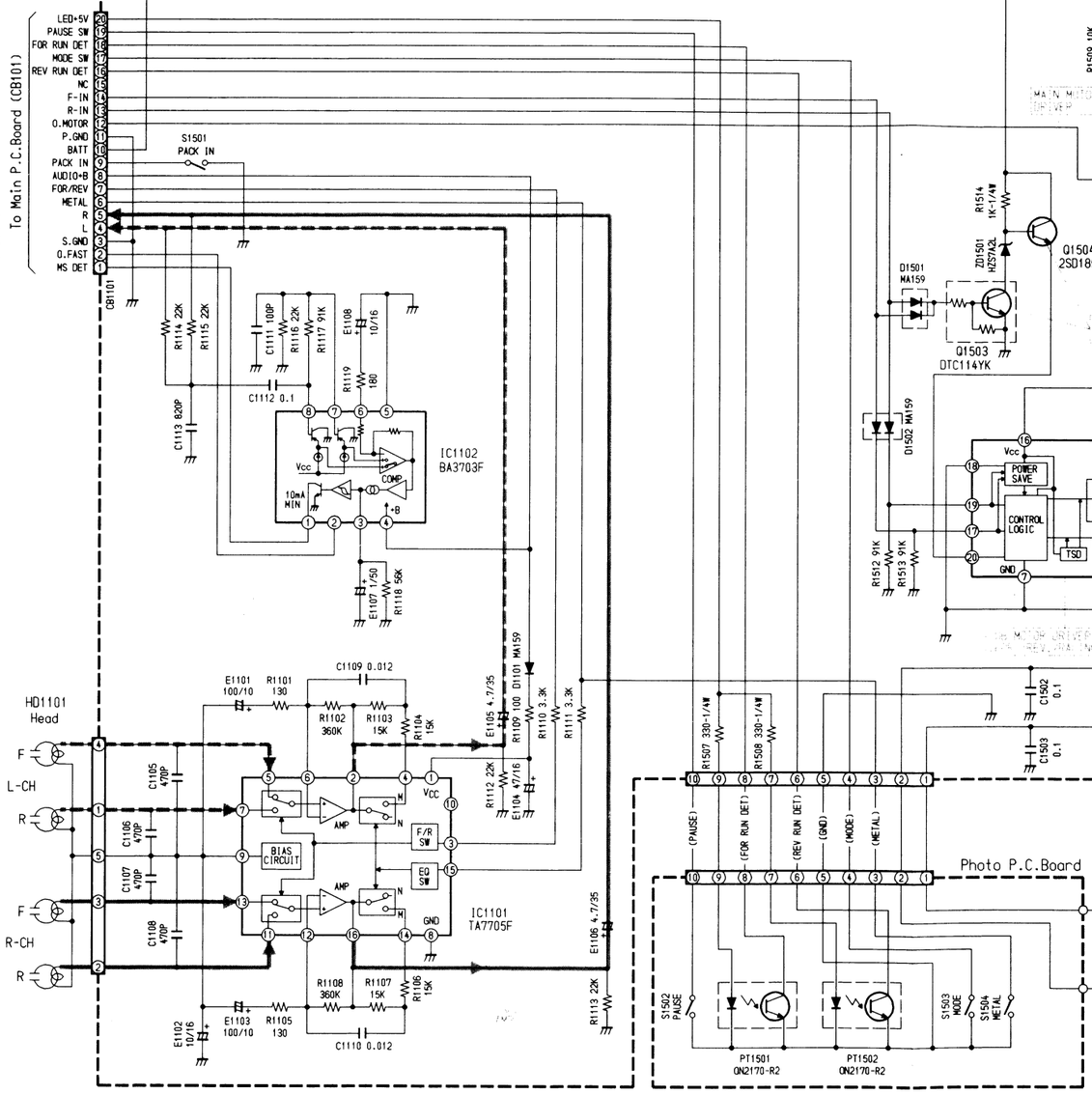
Schematic Diagram (5/5)

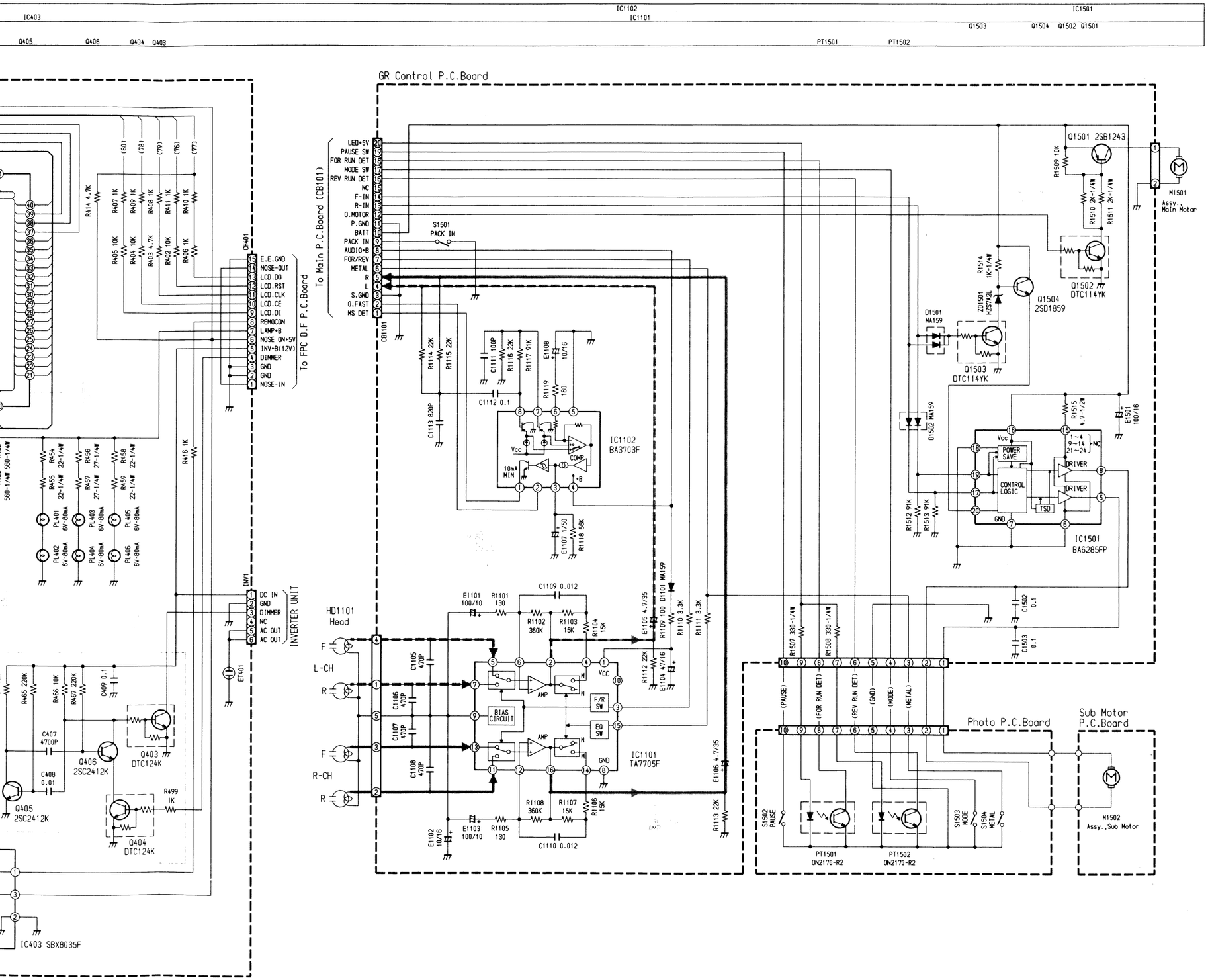
IC	IC401	IC403	IC1102 IC1101
Transistor (Q,PT)	Q401 Q402	Q405 Q406 Q404 Q403	PT1501 PT1502 Q1503 Q1504 Q15

Front P.C.Board



GR Control P.C.Board





IC401

1	5.11V	71	3.43V
2	5.08V	72	1.753V
3	NC	73, 74	0V
4-60	PS	75	PS
61-64	5.15V	76	5.19V
65-69	PS	77	4.92V
70	5.15V	78-80	PS

IC403

1	2.15V
2	0V
3	5.15V

	E	C	B	MODE
Q401	0V	0V	5.11V	
Q402	0V	0V	5.1V	
Q403	0V	PS/ 0V	PS/ 9.78V	DIMMER ON/ OFF
Q404	0V	0V/ 9.76V	4.96V/ 0V	DIMMER ON/ OFF
Q405	0V	PS/ 0V	PS/ 0.641V	DIMMER ON/ OFF
Q406	0V/ 9.75V	PS/ 9.75V	PS/ 10.25V	DIMMER ON/ OFF

<Measuring Conditions>
1. Power Supply Voltage : DC14V
2. Measuring Meter : Digital Multi Meter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : No Signal Input
   FM : 98.1MHz
   AM : 999kHz (MW)
   TAPE: Blank Tape Play

IC1101

1	10.7V	9	3V
2	3.1V	10	NC
3	5.2V	11	3V
4	3.1V	12	3V
5	3V	13	3V
6	3V	14	3.1V
7	3V	15	0V
8	0V	16	3.1V

IC1102

1	5.2V
2	0V
3	0V
4	12V
5	0V
6	0.6V
7	0V
8	0V

IC1501

1-4	NC
5-8	0V
9-14	NC
15	12V
16	12V
17-19	0V
20	12V
21-24	NC

	E	C	B
Q1501	12V	11.8V	11.3V
Q1502	0V	0.1V	5V
Q1503	0V	5.5V	0V
Q1504	11.6V	12V	12V

<Measuring Conditions>
1. Power Supply Voltage : DC12V
2. Measuring Meter : Digital Multi Meter
3. Measuring Point Reference : Between Ground
4. Measuring Conditions : No Signal Input
   FM : 98.1MHz
   AM : 999kHz (MW)
   TAPE: Blank Tape Play

NOTE: ○ : For TDA-7567R Model Only,
● : For TDA-7565R Model Only,
Others : Common.

NOTE:
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1{,}000{,}000}$

Electrical Parts List

Resistor : Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram.

Capacitor : μF=microfarads,pF=picofarads

Abbreviations

RES.= Resistor	CAP.= Capacitor
C.F.= Carbon Film	ELY.= Electrolytic
M.F.= Metal Film	CER.= Ceramic
M.O.= Metal Oxide Film	MYL.= Mylar
M.P.= Metal Plate	TAN.= Tantalum
TR. = Transistor	POLY.= Polystyrol
TRANS.= Transformer	PP. = Polypropylene
CP. = Chip	PLT.= Polyethylene
	PF. = Polyester Film

	Symbol No.	Part No.	Description
	Main P.C.Board		
	IC's		
	IC021	51T93336F01	NJM4558M
	IC022	51T40941U03	MC14066BFL1
	IC041	51T35504W02	LC7219
	IC051	51T67915F01	M51143AL
	IC061	51T55054W02	SAA6579T
	IC071	51T93336F01	NJM4558M
○	IC201	51T85167W01	CXA2502M
●	IC201	51T11210W01	CXA1102M
	IC221	51T65131W01	TEA6320T
●	IC222	51T92001F21	XRA4560F
	IC291	51T40941U03	MC14066BFL1
	IC301	51T92001F21	XRA4560F
	IC321	51T92001F21	XRA4560F
	IC361	51T85153W01	TDA7384
	IC501	51T85151W24	85151W24
	IC502	51T85088W02	85088W02
	IC821	51T95014F13	S-8052HNM-CR
	IC841	51T92001F21	XRA4560F
	IC851	51T93332F01	NJM2903M
	IC871	51T95014F09	S-8054ALR-LN
	Transistors		
	Q001	48T73888F08	CP., FMG1
	Q002	48T62967F03	CP., DTC124K
	Q003	48T73888F08	CP., FMG1
	Q004	48T73888F08	CP., FMG1
	Q021	48T62967F03	CP., DTC124K
	Q022	48T73888F08	CP., FMG1
	Q061	48T73888F12	CP., FMC2
	Q071	48T63420F01	CP., 2SA1037K
	Q072	48T63417F01	CP., 2SC2412K
	Q091	48T84234F03	2SB1238
	Q092	48T84234F03	2SB1238
	Q093	48T62967F03	CP., DTC124K
	Q094	48T15289W03	2SD2008Q
	Q095	48T93828F01	2SD1994A
○	Q201	48T94471F03	CP., IMH1
	Q221	48T62967F23	CP., DTC143TK
	Q222	48T62967F23	CP., DTC143TK
	Q223	48T62967F23	CP., DTC143TK
	Q291	48T73888F08	CP., FMG1
○	Q341	48T63788F04	CP., 2SD1328
○	Q342	48T63788F04	CP., 2SD1328
	Q343	48T63788F04	CP., 2SD1328
	Q344	48T63788F04	CP., 2SD1328
	Q501	48T73888F12	CP., FMC2
	Q504	48T73888F12	CP., FMC2
	Q505	48T73888F13	CP., FMC3
	Q561	48T62967F02	CP., DTC114K
	Q562	48T62967F02	CP., DTC114K
	Q563	48T62967F02	CP., DTC114K
	Q564	48T63420F01	CP., 2SA1037K
	Q572	48T62967F03	CP., DTC124K
	Q575	48T62967F03	CP., DTC124K
	Q581	48T62966F01	CP., DTA143
	Q591	48T73888F12	CP., FMC2
	Q592	48T73888F12	CP., FMC2
	Q593	48T62967F03	CP., DTC124K
	Q594	48T62967F03	CP., DTC124K
	Q811	48T84366F01	2SB1243
	Q812	48T62967F05	CP., DTC143XK
	Q813	48T69176F02	2SC3421
	Q814	48T15289W04	2SD2008R
	Q851	48T52437F01	CP., 2SB709A
	Q852	48T52438F01	CP., 2SD601A
	Q853	48T62966F03	CP., DTA124
	Q871	48T15289W03	2SD2008Q
	Q872	48T62966F03	CP., DTA124
	Q873	48T62967F09	CP., DTC114TK
	Q881	48T84366F01	2SB1243
	Q882	48T62967F02	CP., DTC114K
	Q883	48T63420F01	CP., 2SA1037K
	Q884	48T62967F03	CP., DTC124K
	Diodes		
	D001	48T52446F01	CP., MA151WK
	D002	48T52446F01	CP., MA151WK
	D071	48T68828F01	1SS133

NOTE : ○: For TDA-7567R Model Only, ●: For TDA-7565R Model Only, Others : Common.

Symbol No.	Part No.	Description
D501	48T68828F01	1SS133
D561	48T63462F01	CP., DAN202K
D581	48T25651W02	CP., MA152WK
D591	48T63462F01	CP., DAN202K
D592	48T63462F01	CP., DAN202K
D801	48T68580F02	DSA3A4
D802	48T85270W01	MPG06G
D821	48T68828F01	1SS133
D851	48T63463F01	CP., DAP202K
D852	48T63462F01	CP., DAN202K
D853	48T68828F01	1SS133
D871	48T68828F01	1SS133
D881	48T85270W01	MPG06G
D882	48T85357W01	CP., 1PS226
ZD091	48T83128F25	Zener, HZS9C1L
ZD092	48T83128F01	Zener, HZS6A1L
ZD811	48T83128F25	Zener, HZS9C1L
ZD812	48T83128F40	Zener, HZS12B1L
ZD871	48T83128F04	Zener, HZS6B1L
ZD872	48T83128F13	Zener, HZS7B1L
DSP001	48T81909F01	Surge Protector, DSP-201M
Coil		
L071	24T50508F46	Inductor, 1mH
L501	24T65110W16	Inductor, CP. 1μH
L502	24T65110W16	Inductor, CP. 1μH
L801	24T75055W06	Choke
Crystal		
X041	91T85169W43	7.2MHz
X061	91T45118W18	4.332MHz
X501	91T85169W49	8.3886MHz
X502	91T85169W27	4.9152MHz
Switch/LED		
S301	40T45282W01	Slide, SLD-42-508 (Ai-NET・NORM/(EQ/DIV))
S821	40T16096W03	Tact, SKHHLW (RESET)
LD501	48T65477W03	LED, CP. SML-010PTT87 (GRN)
Filter/Buzzer		
BPF001	91T75257W02	LPF11830KH

Symbol No.	Part No.	Description
BZ501	50T85541W01	Buzzer, CD11PA-XZ
Capacitors		
C001	08S65128F69	CP., 0.01μF
E002	23S75372W05	ELY., 22μF / 16V
E003	23S75372W14	ELY., 0.68μF / 50V
C004	08T15399W01	CP., 0.022μF
C005	08T15399W01	CP., 0.022μF
C006	08T15399W03	CP., 0.047μF
C007	08S82122F37	CP., 100pF
C008	08T15807W05	CP., 0.1μF
C009	08T15399W01	CP., 0.022μF
C010	08T15399W01	CP., 0.022μF
C011	08S82122F61	CP., 1000pF
C021	08S65128F69	CP., 0.01μF
E021	23S75372W08	ELY., 100μF / 16V
C022	08T55390W29	TF, 0.1μF
E022	23S75372W02	ELY., 100μF / 10V
C023	08S65128F69	CP., 0.01μF
E023	23S75372W10	ELY., 0.1μF / 50V
C024	08T15399W02	CP., 0.033μF
E024	23S75372W04	ELY., 10μF / 16V
C025	08T55390W31	TF, 0.15μF
E025	23S75372W14	ELY., 0.68μF / 50V
C026	08T15399W01	CP., 0.022μF
C027	08T15399W02	CP., 0.033μF
C028	08S65128F69	CP., 0.01μF
C029	08S65128F69	CP., 0.01μF
C030	23S82372F19	ELY., (B.P) 2.2μF / 50V
C041	08T15399W01	CP., 0.022μF
E041	23S75372W05	ELY., 22μF / 16V
C042	08S82122F31	CP., 56pF
C043	08S82122F21	CP., 22pF
C044	08S82122F19	CP., 18pF
C051	08S35374W01	CP., 0.1μF
E051	23S75373W04	ELY., 33μF / 16V
C052	08S82122F33	CP., 68pF
E052	23S75373W08	ELY., 0.1μF / 50V
E053	23S75373W13	ELY., 1μF / 50V
E054	23S75372W04	ELY., 10μF / 16V
C061	08S82122F23	CP., 27pF
E061	23S75372W04	ELY., 10μF / 16V
C062	08S82122F23	CP., 27pF
E062	23S75372W16	ELY., 2.2μF / 50V
C063	08S82122F49	CP., 330pF
C064	08S82122F55	CP., 560pF
C065	08S82122F37	CP., 100pF

Symbol No.	Part No.	Description
	C071	08S65128F69	CP., 0.01µF
	E071	23S75372W10	ELY., 0.1µF / 50V
	C072	08S82122F59	CP., 820pF
	C073	08T15399W01	CP., 0.022µF
	C074	08S65128F61	CP., 2200pF
	C075	08S65128F69	CP., 0.01µF
	C076	08S65128F69	CP., 0.01µF
	C077	08S65128F81	CP., 0.039µF
	C091	08T15399W01	CP., 0.022µF
	E091	23S75372W03	ELY., 220µF / 10V
	C092	08T15399W01	CP., 0.022µF
	E092	23S75372W04	ELY., 10µF / 16V
	C102	08S82122F37	CP., 100pF
	C103	08S82122F37	CP., 100pF
	C105	08S65128F67	CP., 6800pF
	C106	08S65128F67	CP., 6800pF
○	C201	08T35122W11	PF., 0.068µF
	E201	23S75373W13	ELY., 1µF / 50V
○	C202	08T35122W11	PF., 0.068µF
	E202	23S75373W13	ELY., 1µF / 50V
	E203	23S75373W02	ELY., 10µF / 16V
	E204	23S75373W07	ELY., 4.7µF / 35V
○	E205	23S75373W08	ELY., 0.1µF / 50V
●	E205	23S75373W12	ELY., 0.68µF / 50V
○	E206	23S75373W08	ELY., 0.1µF / 50V
●	E206	23S75373W12	ELY., 0.68µF / 50V
○	E207	23S75373W02	ELY., 10µF / 16V
●	E207	23S75373W03	ELY., 22µF / 16V
	C221	08S65128F69	CP., 0.01µF
	E221	23S75372W15	ELY., 1µF / 50V
	C222	08T55390W23	TF, 0.033µF
	E222	23S75372W15	ELY., 1µF / 50V
	C223	08T55390W23	TF, 0.033µF
	E223	23S75372W15	ELY., 1µF / 50V
	C224	08T55390W14	PF., 5600pF
	E224	23S75372W15	ELY., 1µF / 50V
	C225	08T55390W14	PF., 5600pF
	E225	23S75372W15	ELY., 1µF / 50V
	E226	23S75372W15	ELY., 1µF / 50V
	E227	23S75372W09	ELY., 4.7µF / 35V
	E228	23S75372W09	ELY., 4.7µF / 35V
	E229	23S75372W15	ELY., 1µF / 50V
	E230	23S75372W15	ELY., 1µF / 50V
	E231	23S75372W07	ELY., 47µF / 16V
●	E232	23S75372W15	ELY., 1µF / 50V
	E233	23S75372W04	ELY., 10µF / 16V
	E301	23S75372W04	ELY., 10µF / 16V
	E302	23S75372W04	ELY., 10µF / 16V
	E303	23S75372W04	ELY., 10µF / 16V

Symbol No.	Part No.	Description
	E305	23S75372W15	ELY., 1µF / 50V
	E306	23S75372W04	ELY., 10µF / 16V
	E321	23S75372W04	ELY., 10µF / 16V
○	E341	23S75372W04	ELY., 10µF / 16V
○	E342	23S75372W04	ELY., 10µF / 16V
	E343	23S75372W04	ELY., 10µF / 16V
	E344	23S75372W04	ELY., 10µF / 16V
	C361	08T15807W05	CP., 0.1µF
	E361	23T95115W01	ELY., 0.33µF / 50V
	E362	23T95115W01	ELY., 0.33µF / 50V
	E363	23T95115W01	ELY., 0.33µF / 50V
	E364	23T95115W01	ELY., 0.33µF / 50V
	E365	23S75372W07	ELY., 47µF / 16V
	E366	23T95115W02	ELY., 1µF / 50V
	E367	23S75372W15	ELY., 1µF / 50V
	E501	23S75372W03	ELY., 220µF / 10V
	C502	08T15399W01	CP., 0.022µF
	E502	23S75372W02	ELY., 100µF / 10V
	C503	08S82122F23	CP., 27pF
	C504	08S82122F21	CP., 22pF
	C505	08S65128F69	CP., 0.01µF
	C506	08S65128F69	CP., 0.01µF
	C507	08T15399W01	CP., 0.022µF
	C509	08S82122F22	CP., 24pF
	C510	08S82122F22	CP., 24pF
	C515	08S82122F37	CP., 100pF
	C516	08S82122F37	CP., 100pF
	C517	08S82122F37	CP., 100pF
	C518	08S82122F37	CP., 100pF
	C519	08S82122F37	CP., 100pF
	C520	08S82122F37	CP., 100pF
	C521	08S82122F37	CP., 100pF
	C561	08S65128F59	CP., 1500pF
	C562	08S35374W01	CP., 0.1µF
	E571	23S75373W13	ELY., 1µF / 50V
	C581	08S65128F69	CP., 0.01µF
	C591	08S82122F37	CP., 100pF
	E591	23S75372W04	ELY., 10µF / 16V
	C592	08S35374W01	CP., 0.1µF
	E801	23T75346W02	ELY., 4700µF / 16V
	C811	08S65128F69	CP., 0.01µF
	E812	23T55378W06	ELY., 47µF / 35V
	E813	23S75372W04	ELY., 10µF / 16V
○	E814	23T00149L15	ELY., 330µF / 10V
●	E814	23T00149L14	ELY., 220µF / 10V
	E816	23S75373W02	ELY., 10µF / 16V
	E817	23T75478W20	ELY., 220µF / 16V
	E818	23S95415W06	ELY., 100µF / 16V
	E821	23S75372W04	ELY., 10µF / 16V

Symbol No.	Part No.	Description
E841	23S75372W02	ELY., 100μF / 10V
E843	23S75372W09	ELY., 4.7μF / 35V
E844	23S75372W04	ELY., 10μF / 16V
C851	08S82122F37	CP., 100pF
E851	23S75372W04	ELY., 10μF / 16V
C852	08S82122F23	CP., 27pF
E871	23S75373W13	ELY., 1μF / 50V
E872	23S75373W08	ELY., 0.1μF / 50V
E881	23S75372W04	ELY., 10μF / 16V
Resistors		(All resistors are chip 1/10W±5% unless otherwise noted.)
R001	06S64995F77	10K ohm
R002	06S64995F77	10K ohm
R004	06S64995F53	1K ohm
R005	06S64995F81	15K ohm
R006	06S64995F77	10K ohm
R007	06S64995F77	10K ohm
R008	06S64995F53	1K ohm
R009	06S64995F61	2.2K ohm
R010	06S64995F61	2.2K ohm
R021	06S64995F53	1K ohm
R022	06S64995F53	1K ohm
R023	06S64995F61	2.2K ohm
R024	06S64995F61	2.2K ohm
R025	06S64995F29	100 ohm
R026	06S64995F83	18K ohm
R027	06S64995F85	22K ohm
R028	06S64995F53	1K ohm
R029	06S64995F71	5.6K ohm
R030	06S70072F29	100 ohm 1/4W
R031	06S64995F77	10K ohm
R032	06S70072F61	2.2K ohm 1/4W
R033	06S64995F53	1K ohm
R034	06S64995F53	1K ohm
R042	06S64995F93	47K ohm
R043	06S64995F53	1K ohm
R044	06S64995F53	1K ohm
R051	06S64995F89	33K ohm
R052	06S64995F89	33K ohm
R053	06S64996F26	1M ohm
R054	06S64996F01	91K ohm
R061	06S64995F61	2.2K ohm
R064	06S64995F53	1K ohm
R065	06S64995F53	1K ohm
R071	06S64996F02	100K ohm
R072	06S64995F77	10K ohm
R073	06S64995F81	15K ohm
R074	06S64996F10	220K ohm

Symbol No.	Part No.	Description
R075	06S64996F14	330K ohm
R076	06S64995F29	100 ohm
R077	06S64995F77	10K ohm
R078	06S64996F04	120K ohm
R079	06S64995F13	22 ohm
R080	06S64996F02	100K ohm
R081	06S64996F02	100K ohm
R091	06S64995F65	3.3K ohm
R092	06S64995F53	1K ohm
R093	06S64995F77	10K ohm
R094	06S70072F61	2.2K ohm 1/4W
R095	06S70072F41	330 ohm 1/4W
R096	06S70072F73	6.8K ohm 1/4W
R101	06S64995F93	47K ohm
R102	06S64995F93	47K ohm
R103	06S64995F93	47K ohm
R104	06S64995F93	47K ohm
R105	06S64995F93	47K ohm
R106	06S64995F89	33K ohm
R107	06S64995F89	33K ohm
R111	06S64995F45	470 ohm
R112	06S64995F45	470 ohm
R203	06S64995F62	2.4K ohm
R204	06S64995F62	2.4K ohm
R205	06S64995F59	1.8K ohm
R206	06S64995F59	1.8K ohm
○ R207	06S64995F84	20K ohm
● R207	06S64995F92	43K ohm
○ R208	06S64995F79	12K ohm
○ R209	06S64995F37	220 ohm
○ R210	06S64995F75	8.2K ohm
● R211	06S64995F69	4.7K ohm
R221	06S64995F94	51K ohm
R222	06S64995F94	51K ohm
R223	06S64996F02	100K ohm
● R225	06S64995F77	10K ohm
● R226	06S64995F77	10K ohm
● R227	06S64995F77	10K ohm
● R228	06S64995F77	10K ohm
R295	06S64995F85	22K ohm
R296	06S64995F85	22K ohm
R301	06T15443W85	22K ohm
R302	06T15443W85	22K ohm
R303	06T15443W85	22K ohm
R304	06T15443W85	22K ohm
R305	06T15443W79	12K ohm
R306	06T15443W79	12K ohm
R307	06T15443W79	12K ohm
R308	06T15443W79	12K ohm

NOTE : ○: For TDA-7567R Model Only, ●: For TDA-7565R Model Only, Others : Common.

	Symbol No.	Part No.	Description
○	R341	06S64995F37	220 ohm
○	R342	06S64995F37	220 ohm
○	R343	06S64995F37	220 ohm
○	R344	06S64995F37	220 ohm
●	R345	06S64995F37	220 ohm
●	R346	06S64995F37	220 ohm
○	R351	06S64995F85	22K ohm
○	R352	06S64995F85	22K ohm
	R353	06S64995F85	22K ohm
	R354	06S64995F85	22K ohm
○	R355	06S64995F29	100 ohm
○	R356	06S64995F29	100 ohm
	R357	06S64995F29	100 ohm
	R358	06S64995F29	100 ohm
○	R361	06S64995F70	5.1K ohm
○	R362	06S64995F70	5.1K ohm
	R363	06S64995F70	5.1K ohm
	R364	06S64995F70	5.1K ohm
	R365	06S64995F77	10K ohm
	R501	06S64995F53	1K ohm
	R502	06S64995F53	1K ohm
	R503	06S64995F53	1K ohm
	R504	06S64995F53	1K ohm
	R505	06S64995F53	1K ohm
	R506	06S64995F53	1K ohm
	R507	06S70072F47	560 ohm 1/4W
	R508	06S70072F47	560 ohm 1/4W
	R509	06S64996F26	1M ohm
	R510	06S64995F53	1K ohm
	R511	06S64995F53	1K ohm
	R512	06S64995F53	1K ohm
	R513	06S64995F85	22K ohm
	R514	06S64995F53	1K ohm
	R515	06S64995F53	1K ohm
	R516	06S64995F53	1K ohm
	R517	06S64995F53	1K ohm
	R518	06S64995F53	1K ohm
	R519	06S64995F53	1K ohm
	R520	06S64995F53	1K ohm
	R521	06S64995F53	1K ohm
	R522	06S64995F85	22K ohm
	R523	06S64995F85	22K ohm
	R524	06S64995F85	22K ohm
	R525	06S64995F85	22K ohm
	R526	06S64995F53	1K ohm
	R527	06S64995F53	1K ohm
	R528	06S64995F53	1K ohm
	R529	06S64995F53	1K ohm
	R530	06S64995F53	1K ohm

	Symbol No.	Part No.	Description
	R531	06S64995F79	12K ohm
	R532	06S64995F77	10K ohm
	R534	06S64995F85	22K ohm
	R537	06S64996F02	100K ohm
	R538	06S64995F53	1K ohm
	R539	06S64995F53	1K ohm
	R540	06S64995F53	1K ohm
	R541	06S64995F53	1K ohm
	R542	06S64995F53	1K ohm
	R543	06S64995F53	1K ohm
	R545	06S64995F93	47K ohm
	R547	06S64995F93	47K ohm
	R548	06S64995F93	47K ohm
	R549	06S64996F02	100K ohm
	R550	06S64995F53	1K ohm
	R551	06S64995F93	47K ohm
	R552	06S64996F18	470K ohm
	R553	06S64995F93	47K ohm
	R554	06S64995F93	47K ohm
	R555	06S64995F93	47K ohm
	R556	06S64995F93	47K ohm
	R557	06S64995F53	1K ohm
	R561	06S64995F85	22K ohm
	R562	06S64995F85	22K ohm
	R563	06S64995F77	10K ohm
	R564	06S64995F65	3.3K ohm
	R565	06S64995F61	2.2K ohm
	R566	06S64995F29	100 ohm
	R571	06S64995F93	47K ohm
	R572	06S64995F77	10K ohm
	R576	06S64995F53	1K ohm
	R577	06S64995F53	1K ohm
	R578	06S64995F77	10K ohm
	R581	06S64995F77	10K ohm
	R583	06S64995F93	47K ohm
	R593	06S64995F77	10K ohm
	R595	06S64995F77	10K ohm
	R596	06S64995F81	15K ohm
	R597	06S64995F37	220 ohm
	R801	06S70072F39	270 ohm 1/4W
	R802	06S70072F39	270 ohm 1/4W
	R811	06S70072F77	10K ohm 1/4W
	R812	06S70072F55	1.2K ohm 1/4W
	R813	06S70072F55	1.2K ohm 1/4W
	R815	06S70072F02	5.6 ohm 1/4W
○	R817	06S70072F45	470 ohm 1/4W
●	R817	06S70072F41	330 ohm 1/4W
	R819	06S70072F37	220 ohm 1/4W
	R821	06S64995F69	4.7K ohm

NOTE : ○: For TDA-7567R Model Only, ●: For TDA-7565R Model Only, Others : Common.

Symbol No.	Part No.	Description
R822	06S64995F85	22K ohm
R823	06S64995F63	2.7K ohm
R841	06S64995F50	750 ohm
R842	06S64995F77	10K ohm
R851	06S64995F73	6.8K ohm
R852	06S64995F77	10K ohm
R853	06S64995F77	10K ohm
R854	06S64995F69	4.7K ohm
R855	06S64995F73	6.8K ohm
R856	06S64995F55	1.2K ohm
R857	06S64995F77	10K ohm
R858	06S64995F77	10K ohm
R859	06S70072F19	39 ohm 1/4W
R860	06S70072F19	39 ohm 1/4W
R861	06S70072F19	39 ohm 1/4W
R862	06S70072F19	39 ohm 1/4W
R863	06S64995F61	2.2K ohm
R864	06S64995F61	2.2K ohm
R865	06S64995F57	1.5K ohm
R866	06S64995F57	1.5K ohm
R867	06S70072F05	10 ohm 1/4W
R871	06S70072F67	3.9K ohm 1/4W
R872	06S70072F69	4.7K ohm 1/4W
R873	06S70072F69	4.7K ohm 1/4W
R881	06S70072F77	10K ohm 1/4W
R882	06S70072F59	1.8K ohm 1/4W
R883	06S70072F59	1.8K ohm 1/4W
R885	06S64995F77	10K ohm
R886	06S70072F04	8.2 ohm 1/4W
R887	06S70072F04	8.2 ohm 1/4W
R888	06S70072F04	8.2 ohm 1/4W
R889	06S70072F04	8.2 ohm 1/4W
R890	06S64995F77	10K ohm
R891	06S70072F77	10K ohm 1/4W
R892	06S70072F61	2.2K ohm 1/4W
R893	06S64995F77	10K ohm
VR201	18T15356W13	Variable, 10K ohm
VR202	18T15356W13	Variable, 10K ohm

Front P.C.Board

IC's

IC401	51T85152W01	LC75883
IC403	51T95040W01	SBX8035F

Symbol No.	Part No.	Description
Transistors		
Q401	48T62967F03	CP., DTC124K
Q402	48T62967F03	CP., DTC124K
Q403	48T62967F03	CP., DTC124K
Q404	48T62967F03	CP., DTC124K
Q405	48T63417F01	CP., 2SC2412K
Q406	48T63417F01	CP., 2SC2412K
Diodes		
D409	48T81063F01	CP., MA159
D410	48T81063F01	CP., MA159
Switches		
S401	40T55656W06	Tact, CP. SKQMAJ (PWR/INT)
S402	40T55656W06	Tact, CP. SKQMAJ (VOL UP)
S403	40T55656W06	Tact, CP. SKQMAJ (VOL DOWN)
○ S404	40T55656W06	Tact, CP. SKQMAJ (MODE/LOUD)
● S404	40T55656W06	Tact, CP. SKQMAJ (MODE)
S405	40T55656W06	Tact, CP. SKQMAJ (SOURCE/A.S.U.)
S406	40T55656W06	Tact, CP. SKQMAJ (BAND/PROG)
S407	40T55656W06	Tact, CP. SKQMAJ (T.INFO)
○ S408	40T55656W06	Tact, CP. SKQMAJ (BBE)
● S408	40T55656W06	Tact, CP. SKQMAJ (LOUD)
S409	40T55656W06	Tact, CP. SKQMAJ (TUNE/A.ME)
S410	40T55656W06	Tact, CP. SKQMAJ (DN)
S411	40T55656W06	Tact, CP. SKQMAJ (UP)
S412	40T55656W06	Tact, CP. SKQMAJ (FUNC/DEMO)
S413	40T55656W06	Tact, CP. SKQMAJ (F1)
S414	40T55656W06	Tact, CP. SKQMAJ (F2)
S415	40T55656W06	Tact, CP. SKQMAJ (F3)
S416	40T55656W06	Tact, CP. SKQMAJ (F4)
S417	40T55656W06	Tact, CP. SKQMAJ (F5)
S418	40T55656W06	Tact, CP. SKQMAJ (F6)
S419	40T45074W01	Tact, SKQGAD (EJECT)
Lamps		
PL401	65T85350W01	6V-80mA
PL402	65T85350W01	6V-80mA
PL403	65T75233W01	6V-80mA
PL404	65T75233W01	6V-80mA
PL405	65T75233W01	6V-80mA
PL406	65T85350W01	6V-80mA

NOTE : ○: For TDA-7567R Model Only, ●: For TDA-7565R Model Only, Others : Common.

Symbol No.	Part No.	Description
LEDs/Inverter		
LD401	48T65477W02	CP., SML-010LTT87 (RED)
LD402	48T65477W03	CP., SML-010PTT87 (GRN)
INV1	01T95281W03	Assy., AC-DC Inverter
Capacitors		
C401	08S82122F59	CP., 820pF
E401	23S55311W42	TAN, CP. 4.7μF / 20V
C402	08T15399W03	CP., 0.047μF
C403	08T15399W03	CP., 0.047μF
C404	08T15399W03	CP., 0.047μF
C407	08S65128F65	CP., 4700pF
C408	08S65128F69	CP., 0.01μF
C409	08S35374W01	CP., 0.1μF
Resistors		(All resistors are chip 1/10W±5% unless otherwise noted.)
R402	06S64995F77	10K ohm
R403	06S64995F69	4.7K ohm
R404	06S64995F77	10K ohm
R405	06S64995F77	10K ohm
R406	06S64995F53	1K ohm
R407	06S64995F53	1K ohm
R408	06S64995F53	1K ohm
R409	06S64995F53	1K ohm
R410	06S64995F53	1K ohm
R411	06S64995F53	1K ohm
R414	06S64995F69	4.7K ohm
R415	06S64995F97	68K ohm
R416	06S64995F53	1K ohm
R421	06S64995F53	1K ohm
R422	06S64995F53	1K ohm
R423	06S64995F53	1K ohm
R424	06S64995F53	1K ohm
R450	06S70072F47	560 ohm 1/4W
R451	06S70072F47	560 ohm 1/4W
R452	06S70072F47	560 ohm 1/4W
R453	06S70072F47	560 ohm 1/4W
R454	06S70072F13	22 ohm 1/4W
R455	06S70072F13	22 ohm 1/4W
R456	06S70072F15	27 ohm 1/4W
R457	06S70072F15	27 ohm 1/4W
R458	06S70072F13	22 ohm 1/4W
R459	06S70072F13	22 ohm 1/4W
R464	06S64995F77	10K ohm
R465	06S64996F10	220K ohm
R466	06S64995F77	10K ohm
R467	06S64996F10	220K ohm
R499	06S64995F53	1K ohm
BBE P.C.Board (○)		
IC's		
IC243	51T92001F21	XRA4560F
IC261	51T95043W01	BA3884F
IC262	51T25844W03	MC14051BFL1
IC263	51T25844W03	MC14051BFL1
Transistors		
Q261	48T62967F03	CP., DTC124K
Q262	48T62967F03	CP., DTC124K
Q263	48T62967F03	CP., DTC124K
Capacitors		
C261	08S82122F53	CP., 470pF
E261	23S75373W07	ELY., 4.7μF/ 35V
C262	08S82122F53	CP., 470pF
E262	23S75373W07	ELY., 4.7μF/ 35V
C263	08T55390W27	TF, 0.068μF
E263	23S75373W07	ELY., 4.7μF/ 35V
C264	08T55390W27	TF, 0.068μF
E264	23S75373W07	ELY., 4.7μF/ 35V
C265	08T55390W17	PF., 0.01μF
E265	23S75373W07	ELY., 4.7μF/ 35V
C266	08T55390W17	PF., 0.01μF
E266	23S75373W07	ELY., 4.7μF/ 35V
C267	08T55390W25	TF, 0.047μF
E267	23S75373W07	ELY., 4.7μF/ 35V
C268	08T55390W25	TF, 0.047μF
E268	23S75373W07	ELY., 4.7μF/ 35V
C269	08S65128F69	CP., 0.01μF
E269	23S75373W07	ELY., 4.7μF/ 35V
E270	23S75373W13	ELY., 1μF/ 50V
Resistors		(All resistors are chip 1/10W±5% unless otherwise noted.)
R251	06S64995F77	10K ohm
R252	06S64995F77	10K ohm

NOTE : ○: For TDA-7567R Model Only, ●: For TDA-7565R Model Only, Others : Common.

Symbol No.	Part No.	Description
R253	06S64995F77	10K ohm
R254	06S64995F77	10K ohm
R261	06S64995F90	36K ohm
R262	06S64995F90	36K ohm
R263	06S64995F85	22K ohm
R264	06S64995F90	36K ohm
R265	06S64995F85	22K ohm
R266	06S64995F85	22K ohm
R268	06S64995F85	22K ohm
R269	06S64995F93	47K ohm
R270	06S64996F02	100K ohm
R271	06S64995F93	47K ohm
R272	06S64995F85	22K ohm
R273	06S64995F85	22K ohm
R274	06S64995F85	22K ohm
R275	06S64995F85	22K ohm
R276	06S64995F89	33K ohm
R277	06S64995F85	22K ohm
R278	06S64995F85	22K ohm
R279	06S64995F92	43K ohm
R280	06S64995F85	22K ohm
R283	06S64995F85	22K ohm
R284	06S64996F02	100K ohm
R285	06S64996F02	100K ohm
R286	06S64995F92	43K ohm
R287	06S64995F85	22K ohm
R288	06S64995F85	22K ohm
R289	06S64995F85	22K ohm
R290	06S64995F85	22K ohm
R291	06S64995F85	22K ohm
R292	06S64995F85	22K ohm
R293	06S64995F85	22K ohm

GR Control P.C.Board

IC's

IC1101	51T64606F02	TA7705F
IC1102	51T75010W01	BA3703F
IC1501	51T75628W01	BA6285FP

Transistors

Q1501	48T84366F05	2SB1243
Q1502	48T62967F06	CP., DTC114YK
Q1503	48T62967F06	CP., DTC114YK
Q1504	48T83835F03	2SD1859

Diodes

D1101	48T81063F01	CP., MA159
D1501	48T81063F01	CP., MA159
D1502	48T81063F01	CP., MA159
ZD1501	48T83128F11	Zener, HZS7A2L

Capacitors

E1101	23S75372W02	ELY., 100µF / 10V
E1102	23S75372W04	ELY., 10µF / 16V
E1103	23S75372W02	ELY., 100µF / 10V
E1104	23S75372W07	ELY., 47µF / 16V
C1105	08S72783F31	CP., 470pF
E1105	23S75372W09	ELY., 4.7µF / 35V
C1106	08S72783F31	CP., 470pF
E1106	23S75372W09	ELY., 4.7µF / 35V
C1107	08S72783F31	CP., 470pF
E1107	23S75372W15	ELY., 1µF / 50V
C1108	08S72783F31	CP., 470pF
E1108	23S75372W04	ELY., 10µF / 16V
C1109	08S53332F48	CP., 0.012µF
C1110	08S53332F48	CP., 0.012µF
C1111	08S65128F35	CP., 100pF
C1112	08S35374W01	CP., 0.1µF
C1113	08S82122F59	CP., 820pF
E1501	23S75372W08	ELY., 100µF / 16V
C1502	08S65128F76	CP., 0.1µF
C1503	08S65128F76	CP., 0.1µF

Resistors

(All resistors are chip 1/10W±5% unless otherwise noted.)

R1101	06S53330F32	130 ohm 1/8W
R1102	06S64996F15	360K ohm
R1103	06S64995F81	15K ohm
R1104	06S53330F81	15K ohm 1/8W
R1105	06S53330F32	130 ohm 1/8W
R1106	06S64995F81	15K ohm
R1107	06S64995F81	15K ohm
R1108	06S64996F15	360K ohm
R1109	06S53330F29	100 ohm 1/8W
R1110	06S53330F65	3.3K ohm 1/8W
R1111	06S53330F65	3.3K ohm 1/8W
R1112	06S53330F85	22K ohm 1/8W
R1113	06S53330F85	22K ohm 1/8W

Symbol No.	Part No.	Description
R1116	06S64995F85	22K ohm
R1117	06S64996F01	91K ohm
R1118	06S64995F95	56K ohm
R1119	06S64995F35	180 ohm
R1507	06S70072F41	330 ohm 1/4W
R1508	06S70072F41	330 ohm 1/4W
R1509	06S64995F77	10K ohm
R1510	06S70072F60	2K ohm 1/4W
R1511	06S70072F60	2K ohm 1/4W
R1512	06S53331F01	91K ohm 1/8W
R1513	06S53331F01	91K ohm 1/8W
R1514	06S70072F53	1K ohm 1/4W
R1515	06S81094F09	M.F., 4.7 ohm 1/2W

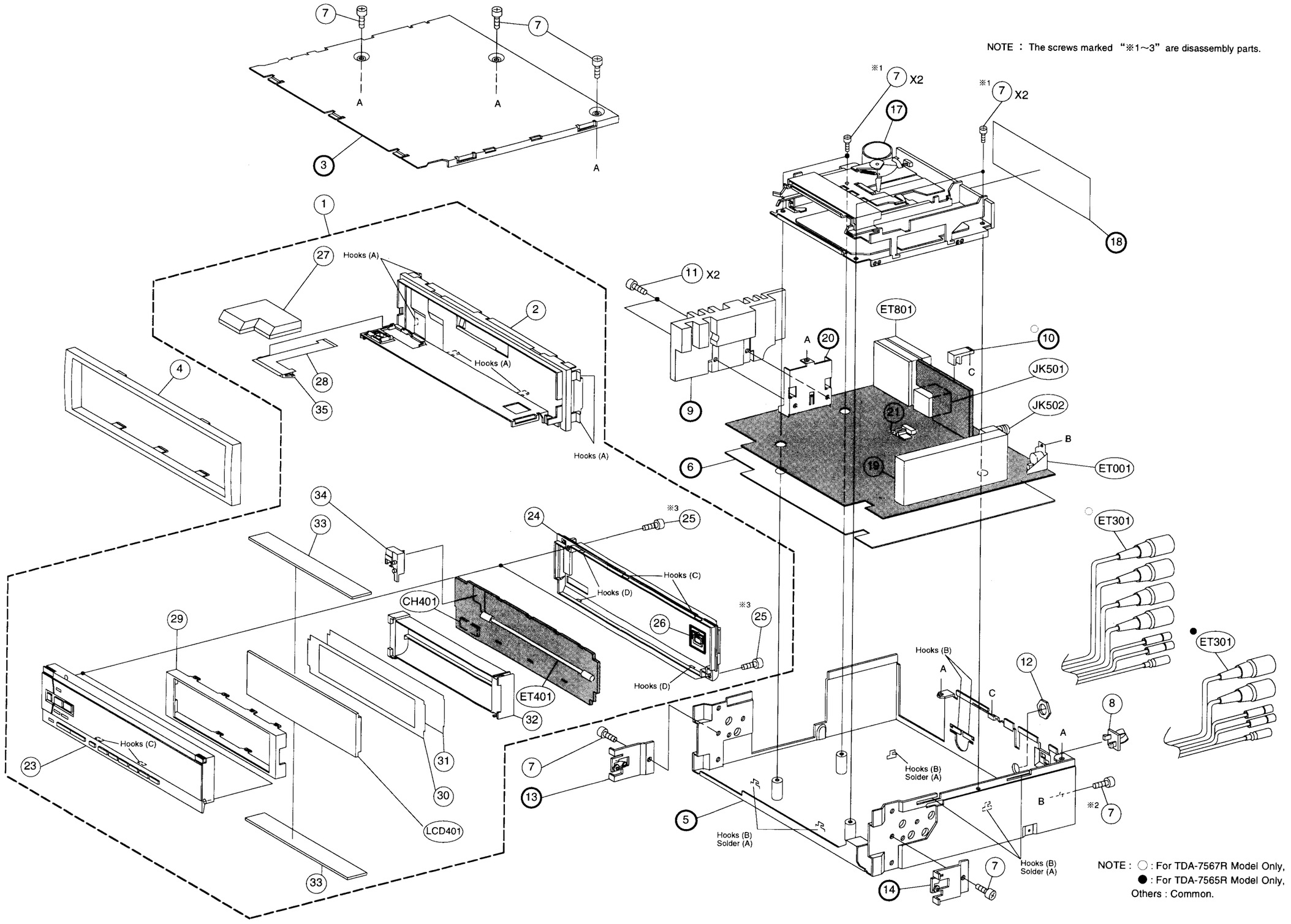
Miscellaneous

	CH401	09T95221W15	15P Connector
	ET001	09T55211W01	Antenna Receptacle
○	ET301	01T85236W04	Assy., RCA Connector (Rear Out, F-Out/NFP, Audio Interrupt In, Remote Turn On, Illumi In)
●	ET301	01T85236W05	Assy., RCA Connector (Rear Out, Audio Interrupt In, Remote Turn On,Illumi In)
	ET401	65T75553W02	FL, Tube
	or	65T95443W02	FL, Tube
	ET801	01T75292W05	Assy., ISO Connector
	LCD401	65T95220W01	LCD Display
	HD1101	88T75612W02	Assy., Head
	JK501	09T55071W11	Ai-NET Connector
	JK502	09T95460W01	Jack, Steering Remocon
	M1501	01V74500W16	Assy., Main Motor (13.2V-55mA)
	M1502	01V74500W23	Assy., Sub Motor (7V-370mA)
	PT1501	51T63433F03	Sensor, Photo ON2170-R2
	PT1502	51T63433F03	Sensor, Photo ON2170-R2
	S1501	40T15222W01	Switch, Detector (PACK IN)
	S1502	40T15382W02	Switch, Detector (PAUSE)
	S1503	40T15382W02	Switch, Detector (MODE)
	S1504	40T15382W02	Switch, Detector (METAL)

NOTE : ○: For TDA-7567R Model Only, ●: For TDA-7565R Model Only, Others : Common.

Exploded View (Cabinet)

NOTE : The screws marked "※1～3" are disassembly parts.



NOTE : ○ : For TDA-7567R Model Only,
● : For TDA-7565R Model Only,
Others : Common.

Cabinet Assembly Parts List

NOTE:No parts number on parts list are not supplied.

Symbol No.	Index	Part No.	Description
○ 1	2-C	01V94100W83	Assy., Nose Unit
● 1	2-C	01V94600W33	Assy., Nose Unit
2	3-D	13C91133W01	Assy., Front Escutcheon
4	3-B	33C91124W01	Face, Plate
7		03S44205G29	Screw, Pan (M2.6X6)
8	4-G	15A70387W01	Holder, Antenna
11	2-D	03S38013W05	Screw, Pan (M2.6X16)
12	4-F	02S40000G53	Nut, Hex. (M6)
19	3-F	77B60578W01	FM/MW/LW Tuner Unit, MB4R3010 (FE001)
21	3-F	36A70327W01	Knob, Slide
○ 23	5-A	13D91070W02	Assy., Nosepiece
● 23	5-A	13D91070W03	Assy., Nosepiece
24	3-D	13D91069W01	Nose, Bottom
25		03S68555F39	Screw, Pan (M1.7X10)
26	4-D	36A91125W01	Knob, Eject
27	2-C	15C91126W01	Cover, Plate
28	3-C	84T95365W01	FPC, DF
29	4-B	15B91067W01	Cover, LCD
30	5-C	26B91066W01	Refrector, Sheet
31	5-C	26B91066W02	Refrector, Sheet (B)
32	4-D	15C91068W01	Case, LCD
33		75T85248W04	Rubber, Electric
34	3-C	43C91065W01	Spacer, Remote
35	3-C	09T95222W15	FPC, Connector

Symbol No.	Index	Part No.	Description

NOTE : ○: For TDA-7567R Model Only, ●: For TDA-7565R Model Only, Others : Common.

Disassembly Instructions

1. Removal of Nose Unit

(1) Refer to the Owner's Manual (Part No. 68P90579W69).

2. Removal of Front Escutcheon

(1) After removal of Face Plate and Top Cover, remove the Hooks (A). .....Hooks (A) (2-C, 3-D)
(2) Disconnect the FPC DF from Main P.C. Board.

3. Removal of Cassette Deck

(1) After removal of Front Escutcheon, remove four screws No.7. .....Screws No. 7 (※1) (1-F)
(2) Disconnect the connector from Main P.C. Board.

4. Removal of Main P.C. Board

(1) After removal of Front Escutcheon, remove one screw No. 7. .....Screw No. 7 (※2) (5-G)
and one nut No. 12. Nut No. 12 (4-F)
(○) (2) Remove the Solder (A) , Hooks (B) and Holder P.C. Board. .....Solder (A) (4-F, 5-E, 5-F)
Hooks (B) (4-F, 5-E, 5-F)
(●) (2) Remove the Solder (A) and Hooks (B). .....Solder (A) (4-F, 5-E, 5-F)
Hooks (B) (4-F, 5-E, 5-F)

5. Removal of Front P.C. Board

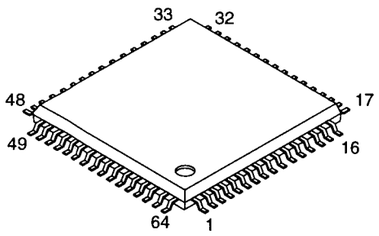
(1) After removal of Nose Unit, remove two screws No. 25. .....Screws No. 25 (※3) (3-D, 4-E)
(2) Remove the Hooks (C), and remove the Nosepiece. .....Hooks (C) (4-D)
(3) Remove the Hooks (D). .....Hooks (D) (4-D)

NOTE: For the screws No., Hooks, and Solder, refer to the Exploded View (Cabinet).
○ : For TDA-7567R Model Only, ● : For TDA-7565R Model Only, Others : Common.

Semi-Conductor Lead Identifications

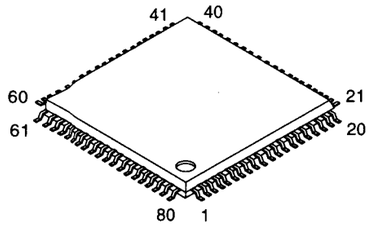
NOTE : For the parts not mentioned, refer to the Schematic Diagram.

85151W24 : IC501



PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O
1	DIMMER OUT	O	17	MTR FAST	O	33	REM ON	O	49	MODEL	I
2	NOSE PWR	O	18	MS DET	I	34	BUS OUT	O	50	N.F.P. 2	O
3	BUZZER	O	19	METAL	I	35	$\overline{\text{RESET}}$	I	51	BBE 1	O
4	DTS STRT	O	20	PACK IN	I	36	REMOCON	I	52	BBE 2	O
5	DTS MUTE	I	21	REV DET	I	37	BUS IN	I	53	BBE 3	O
6	DTS CE	O	22	MODE SW	I	38	ACC DET	I	54	NOSE DET	I
7	ALARM	O	23	FOR DET	I	39	BATT DET	I	55	AV_{DD}	—
8	N.F.P. 1	O	24	GND	—	40	V_{DD}	—	56	AV_{REF}	—
9	GND	—	25	PAUSE SW	I	41	X2	—	57	LCD DO	O
10	$\overline{\text{DOLBY B}}$	O	26	MUTE	O	42	X1	—	58	LCD DI	O
11	$\overline{\text{DOLBY C}}$	O	27	NC	—	43	GND	—	59	LCD CLK	O
12	L.O. FAST	O	28	NC	—	44	NC	—	60	LCD CE	O
13	FOR/$\overline{\text{REV}}$	O	29	EV DATA	O	45	NC	—	61	$\overline{\text{LCD RST}}$	O
14	O-MOTOR	O	30	EV CLK	O	46	GND	—	62	DTS STS	I
15	R-IN	O	31	PWR IC	O	47	$\overline{\text{DIMMER IN}}$	I	63	DTS CMD	O
16	L-IN	O	32	PWR ON	O	48	IN INT	I	64	$\overline{\text{DTS CLK}}$	O

85088W02 : IC502



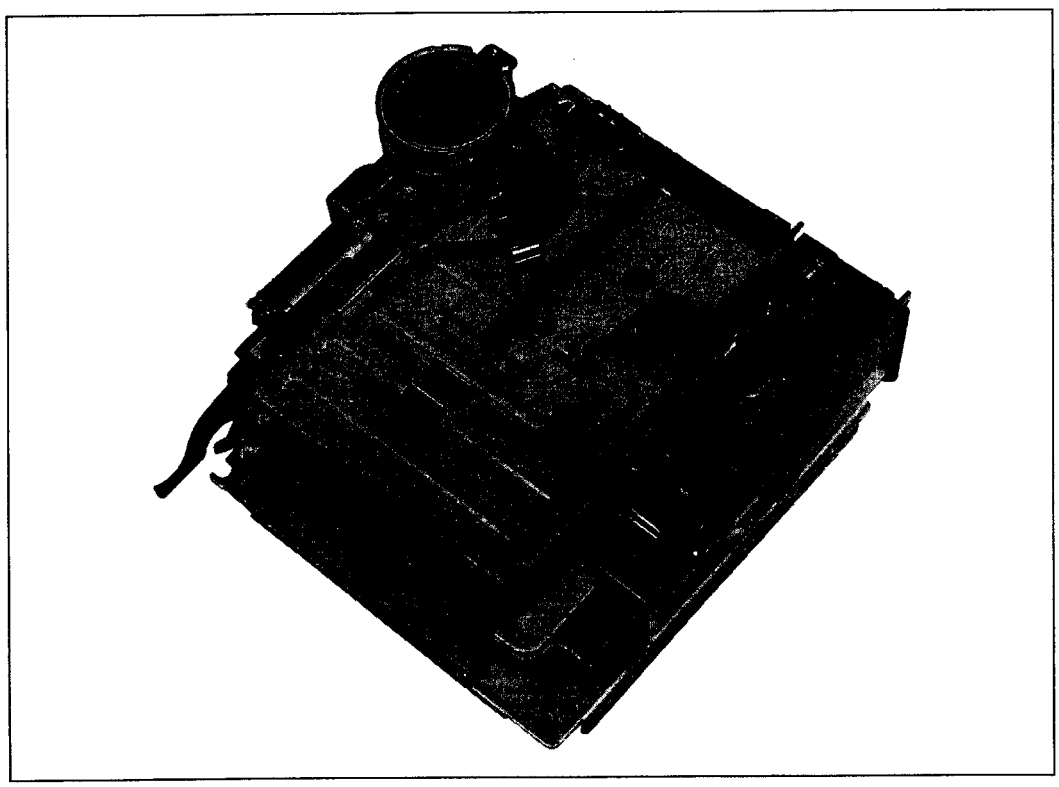
PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O
1	LW	O	21	NC	—	41	NC	—	61	RDS CLK	I
2	LO/$\overline{\text{DX}}$	O	22	NC	—	42	NC	—	62	RDS DATA	I
3	NC	—	23	NC	—	43	NC	—	63	DTS CE	I
4	AV_{SS}	—	24	NC	—	44	NC	—	64	NC	—
5	$\overline{\text{LPF SW}}$	O	25	NC	—	45	NC	—	65	NC	—
6	IF MUTE	O	26	NC	—	46	NC	—	66	NC	—
7	AV_{REF}	—	27	NC	—	47	NC	—	67	50K REF	O
8	RXD	I	28	NC	—	48	NC	—	68	V_{DD}	—
9	TXD	O	29	NC	—	49	NC	—	69	X2	—
10	SYNC	O	30	NC	—	50	NC	—	70	X1	—
11	PLL CLK	O	31	NC	—	51	NC	—	71	GND	—
12	PLL DATA	O	32	NC	—	52	NC	—	72	NC	—
13	PLL CE	O	33	GND	—	53	NC	—	73	PLL D-IN	I
14	DTS MUTE	O	34	NC	—	54	NC	—	74	AV_{DD}	—
15	DTS START	I	35	NC	—	55	NC	—	75	$AV_{REF}0$	I
16	DTS CMD	I	36	NC	—	56	NC	—	76	S.METER	I
17	DTS STS	O	37	NC	—	57	NC	—	77	ADJ-ON	I
18	DTS CLK	I	38	NC	—	58	FM/$\overline{\text{AM}}$	O	78	M.P	I
19	NC	—	39	NC	—	59	AUDIO IN	I	79	ST	I
20	NC	—	40	NC	—	60	RESET	I	80	SD	I

ALPINE®

SERVICE MANUAL

ALPI-00441

Cassette Deck Mechanism



GR-S SERIES

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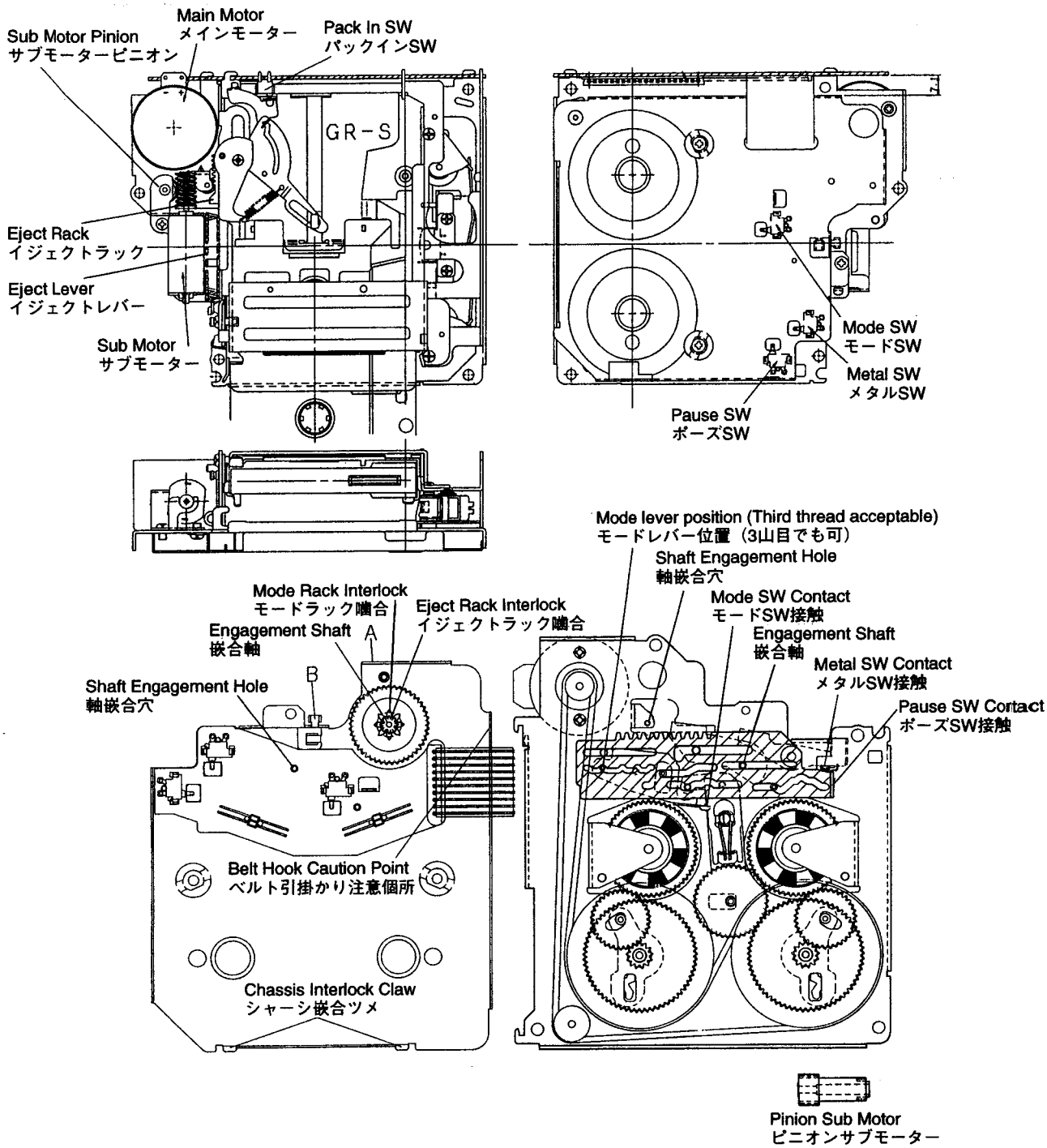
Basic Operation of GR-S Mechanism
GR-Sメカ基本動作



Mode rack engagement should be made so that normal engagement is obtained when an end of section A touches the chassis closely with the pinion sub motor inserted in place and rotated after temporary installation of the bottom cover. In this case, the sub motor wires should be positioned in the normal guide of the section B (should not be jammed). The metal lever should be installed by moving the switch contact section to inside of the mechanism as in GR-H.

モードラックの噛合せはボトムカバー仮装着後PINION SUB MOTORを正規位置に挿入して回転させる。
A部端面がシャーシと密着出来たとき正常な噛合い状態になったことを意味する。
又このときサブモータワイヤがB部の正規ガイド位置にあること。（挟み込みさせないこと。）
メタルレバーはGR-Hと同様にSW接触部をメカ内部に移動させて組み込むこと。

A. Loading
1. Insert a cassette pack.
2. PACK IN SW goes ON→OFF.
3. SUB motor rotates and the power is transferred to SUB MOTOR PINION, EJECT rack, and EJECT lever, and moves to the direction shown by the arrow.
4. After completion of the cassette pack loading, motion start of the mode lever is detected by checking ON→OFF of the PAUSE SW, and rotation of the SUB MOTOR stops once, and then the SUB MOTOR rotates in reverse direction until the PAUSE SW is ON again. After the stop of the SUB MOTOR, the main motor rotates.
5. When the main motor rotates, both reels rotate in the winding direction and eliminate slack of the tape at the PAUSE position. (Loading completion)

A. ローディング
1. カセットパックを挿入する。
2. PACK IN SWがON→OFFになる。
3. SUBモーターが回転してSUB MOTOR PINION、EJECTラック、EJECTレバーと動力が伝達し、矢印方向へ移動する。
4. カセットパック装着完了後、モードレバーが動き始めたことを、PAUSE SWがON→OFFすることで、検知しSUB MOTORの回転を一旦停止させ、再度PAUSE SWがONするまで逆回転させる、SUB MOTOR停止後メインモーターを回転させる。
5. メインモーターの回転により、両リールを巻き取り方向に回転させ、テープのタルミをPAUSE位置でなくする。（ローディング完了）

B. Play
1. Rotation of the main motor stops and the SUB MOTOR rotates, thereby moving the mode lever to the PLAY position.
2. Motion of the mode lever to the PLAY position is detected by checking ON/OFF number of the mode SW and rotating direction of the sub motor.
3. After detection of the mode lever moved to the PLAY position, the SUB MOTOR rotation stops and the main motor rotates, thus entering the PLAY operation.

B. プレイ
1. メインモーターの回転を停止させ、SUB MOTORを回転させて、モードレバーをPLAY位置に移動させる。
2. モードレバーのプレイ位置への移動はモードSWのON/OFF回数とサブモーターの回転方向で検知する。
3. モードレバーがPLAY位置に移動したことを検知したら、SUB MOTORの回転を停止し、メインモーターを回転させてPLAY動作に入る。

C. PROG
1. With the PROG KEY SW ON, the SUB MOTOR rotates, and the mode lever moves to next PLAY position (NORMAL→REVERSE PLAY or REVERSE→NORMAL PLAY).
2. When the mode switch detects the next PLAY position, the SUB MOTOR rotation stops, and operation shifts to the PLAY.

C. PROG
1. PROG KEY SW ONにより、SUB MOTORを回転させ、モードレバーを次のPLAY位置（NORMAL→REVERSE PLAY又は、REVERSE→NORMAL PLAY）に移動させる。
2. モードSWが次のPLAY位置を検知したらSUB MOTORの回転を停止し、PLAYに移行する。

D. FF/REW (QUE/REVIEW)

1. With KEY ON, rotation of the main motor stops and the SUB MOTOR rotates to bring the mode lever to the specified position.
2. When the specified position is detected by counting ON/OFF number of the mode SW, the SUB MOTOR rotation stops, and the main motor rotates to perform tape fast winding operation.
   (According to the stop position of the mode lever, all of head position retreat, playback engagement releasing, pinch roller retreat, and FF gear engagement are kept.)

D. FF/REW (QUE/REVIEW)

1. KEY ONによりメインモーターの回転を停止し、SUB MOTORを回転させモードレバーを所定の位置に移動させる。
2. モードSWのON/OFF回数をカウントし、所定の位置を検知したらSUB MOTORの回転を停止し、メインモーターを回転させ、TAPE早送り動作を行う。
   （モードレバーの停止位置により、ヘッド位置後退、プレイ噛み合い切り離し、ピンチローラー後退、早送り歯車の噛み合いは、全て維持される。）

E. EJECT

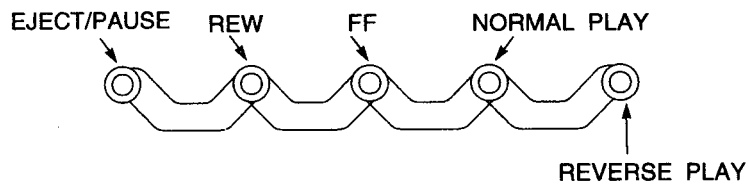
1. With KEY ON, main motor rotation stops and SUB MOTOR rotates, thereby moving the mode lever to the EJECT/PAUSE position.
2. When the PAUSE SW turns on with the mode lever moved , the SUB MOTOR rotation stops, the main motor rotates to perform take up operations for both the reels.
3. When beginning of the reel slip is detected with tape slack eliminated, the main motor rotation stops and the sub motor rotates to move the EJECT lever in the eject direction.
4. When the PACK IN SW goes from OFF to ON, the SUB MOTOR rotation stops and the EJECT operation completes.

E. EJECT

1. KEY ONにより、メインモーターの回転を停止すると共に、SUB MOTORを回転させ、モードレバーをEJECT/PAUSE位置に移動させる。
2. モードレバーの移動は、PAUSE SWがONした所でSUB MOTORの回転を停止しメインモーターを回転させ両リールの巻き取り動作を行う。
3. テープタルミが無くなり、リールスリップが始まったことを、検知したらメインモーターの回転を停止し、SUB MOTORを回転させてEJECTレバーを排出方向に移動させる。
4. PACK IN SWがOFF→ONに切り換わったらSUB MOTORの回転を停止させEJECT完了となる。

Mode lever position

モードレバー位置



Mechanism operations are determined by positions of the mode lever shown above.

メカの動作は上記モードレバーの位置で決まる。

Operations of MODE SW and PAUSE SW

MODE SW、 PAUSE SWの動作

REV. PLAY

Mechanism operation shift メカ動作の移行		MODE SW	PAUSE SW
Loading	→Play	4	2
	FF		
	REW		
Play	→FF	3	0
	REW	2	0
	PROG	1	0
	EJECT	4	1 (OFF→ON)
FF	→Play	3	0
	REW	1	0
	PROG		
	EJECT	1	1 (OFF→ON)
REW	→Play	2	0
	FF	1	0
	PROG		
	EJECT	2	1 (OFF→ON)

ON→OFF number of above switches
上記SWのON→OFF回数

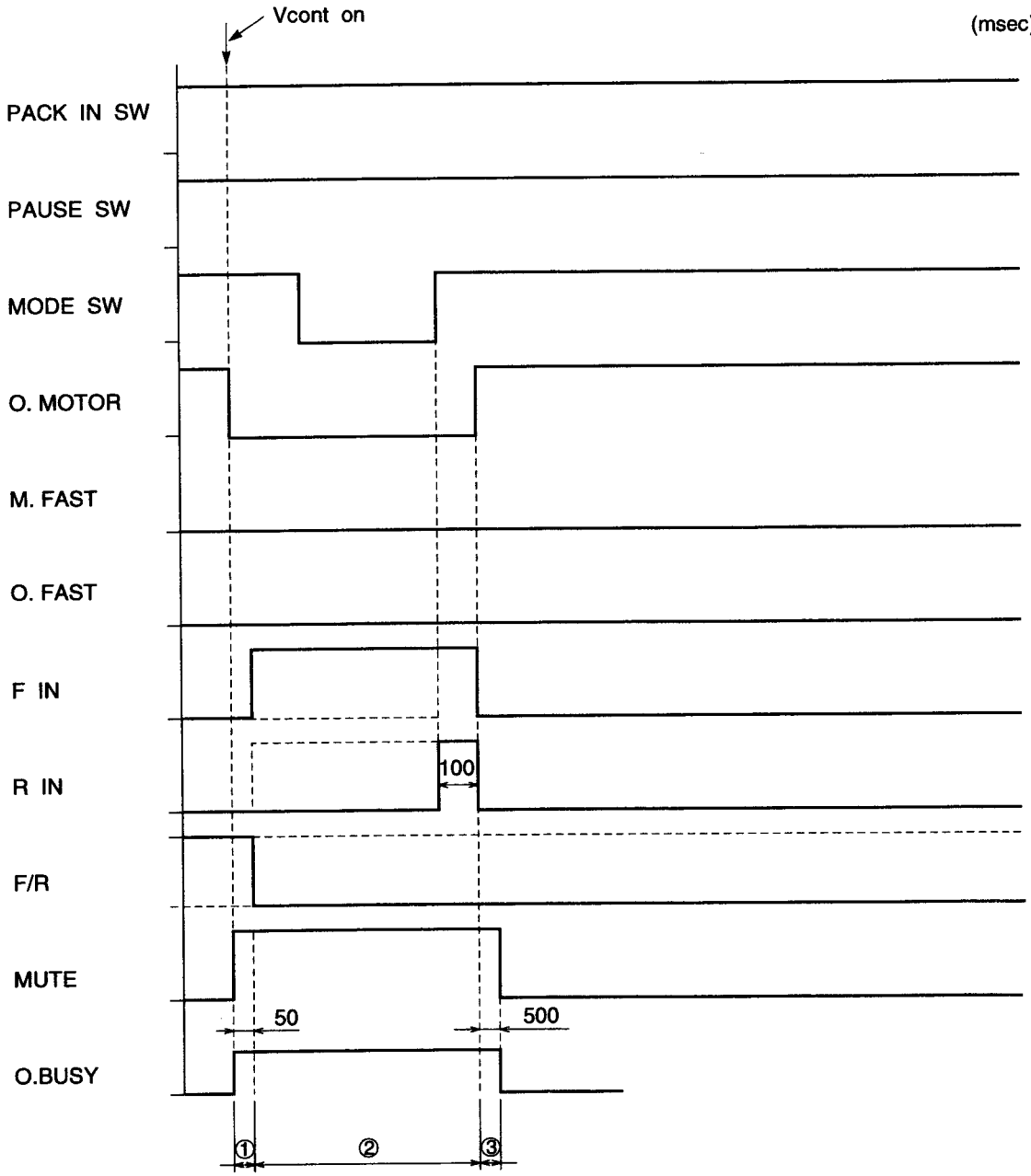
FOR. PLAY

Mechanism operation shift メカ動作の移行		MODE SW	PAUSE SW
Loading	→Play	3	2
	FF		
	REW		
Play	→FF	1	0
	REW	2	0
	PROG	1	0
	EJECT	3	1 (OFF→ON)
FF	→Play	1	0
	REW	1	0
	PROG		
	EJECT	2	1 (OFF→ON)
REW	→Play	2	0
	FF	1	0
	PROG		
	EJECT	1	1 (OFF→ON)

ON→OFF number of above switches
上記SWのON→OFF回数

Mechanism basic operation timing chart
メカニズム基本動作タイミングチャート

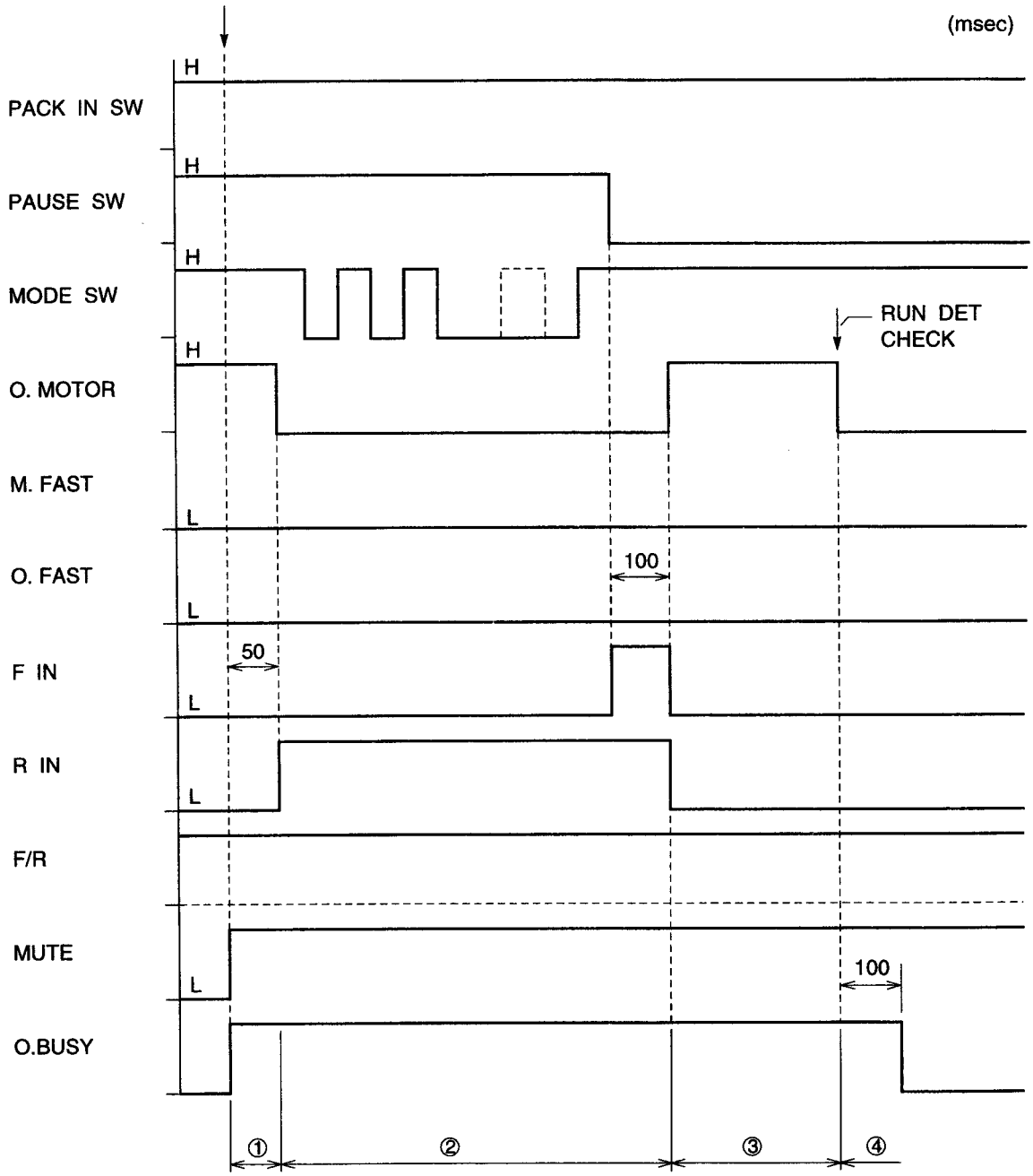
Shift MODE　　PLAY → PLAY (PROG)
移行モード　　PLAY → PLAY (PROG)



① Tape wind stop: Main motor stops.
② Mode lever shift: SUB MOTOR rotates, mode lever moves to a specified position and stops.
③ Mode determination: Muting until operation reaches a stable status.

① TAPE巻取り停止：MAIN MOTORを停止させる。
② MODE LEVER移動：SUB MOTORを回しMODE LEVERを目的の位置まで移動させ停止させる。
③ MODE確定：動作安定までMUTE。

Shift MODE　　PLAY → PAUSE
移行モード　　PLAY → PAUSE

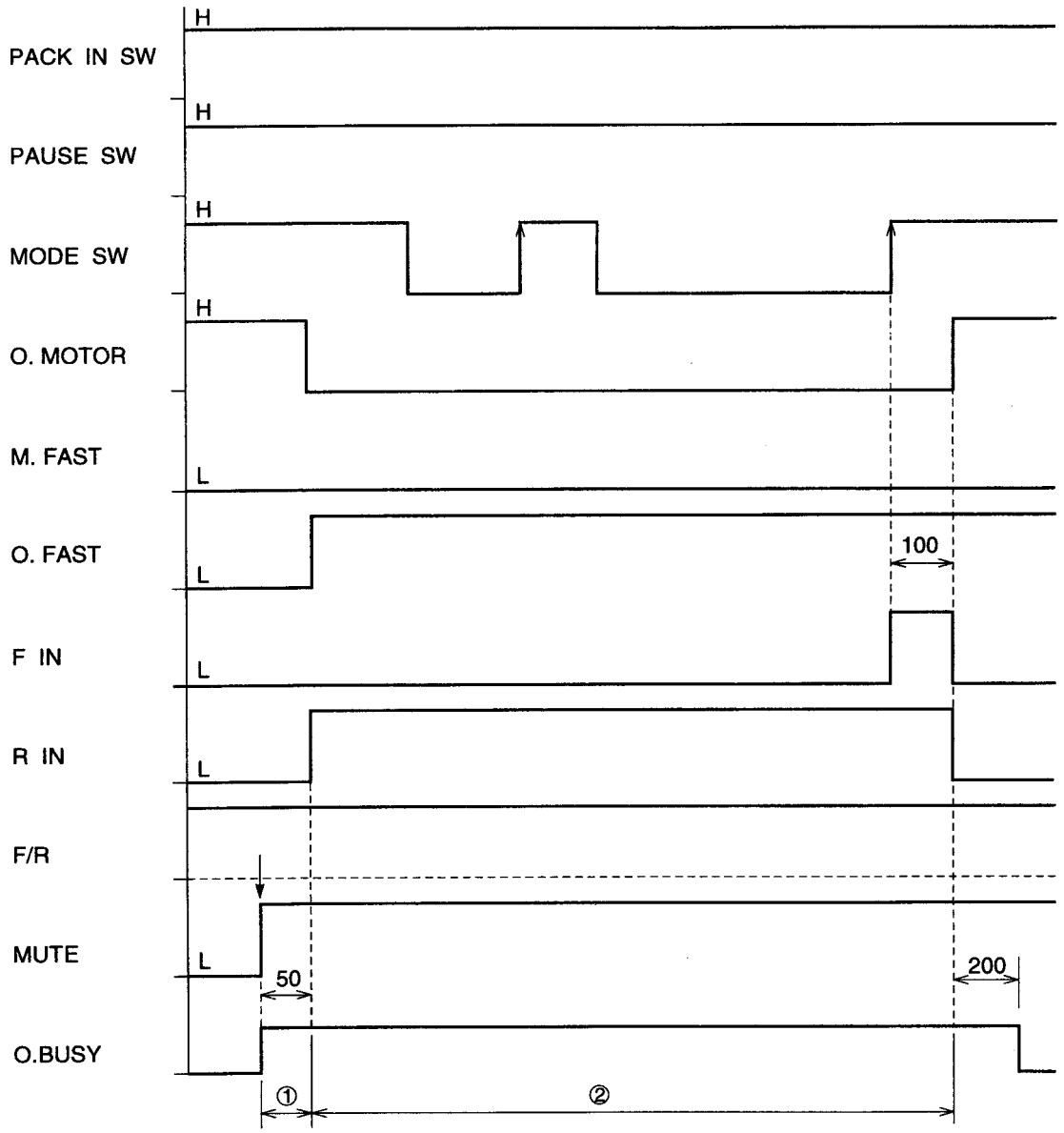


① Tape wind stop: Main motor stops.
② Mode lever shift: Sub motor rotates, mode lever moves to a specified position and stops.
③ Removal of tape slack: Both reel rotate in winding direction and eliminate tape slack.
④ Reel stop: Main motor stops when run det pulse reaches a specified value.

① TAPE巻取り停止：MAIN MOTOR停止
② MODE LEVER移動：SUB MOTORを回し、MODE LEVERを目的の位置まで移動させ停止させる。
③ TAPE弛み取り：両リールを巻取方向へ回転させ、TAPEの弛みを無くす。
④ リール停止：RUNDET PULSが設定値に達したらMAIN MOTORを停止させる。

Shift MODE　　PLAY → REW
移行モード　　PLAY → REW

(msec)

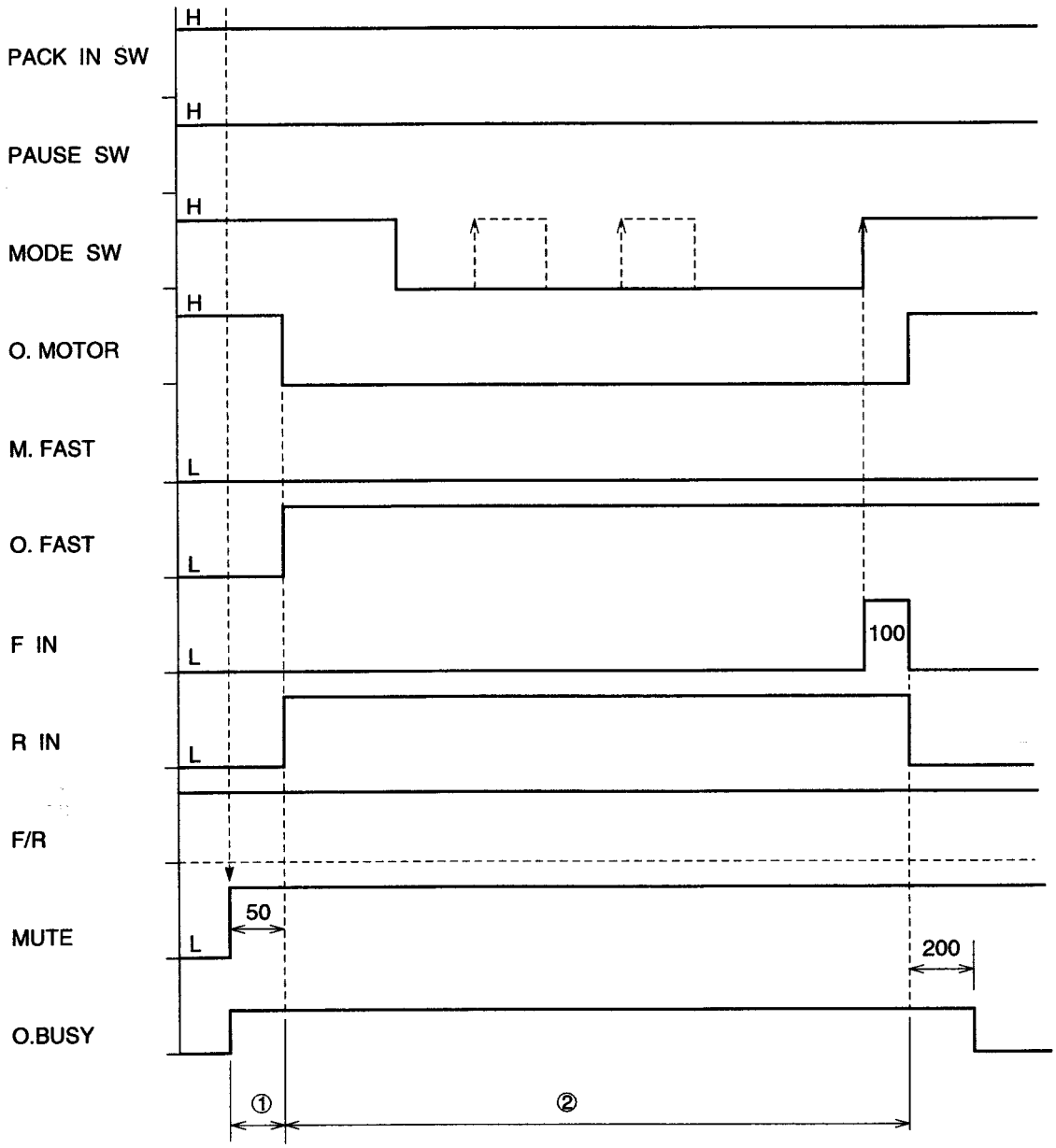


① Tape wind stop: Main motor stops.
② Mode lever shift: Sub motor rotates and mode lever moves to a specified position and stops.

① TAPE巻取り停止：MAIN MOTOR停止
② MODE LEVER移動：SUB MOTORを回しMODE LEVERを目的の位置まで移動させ停止させる。

Shift MODE　　PLAY → FF
移行モード　　PLAY → FF

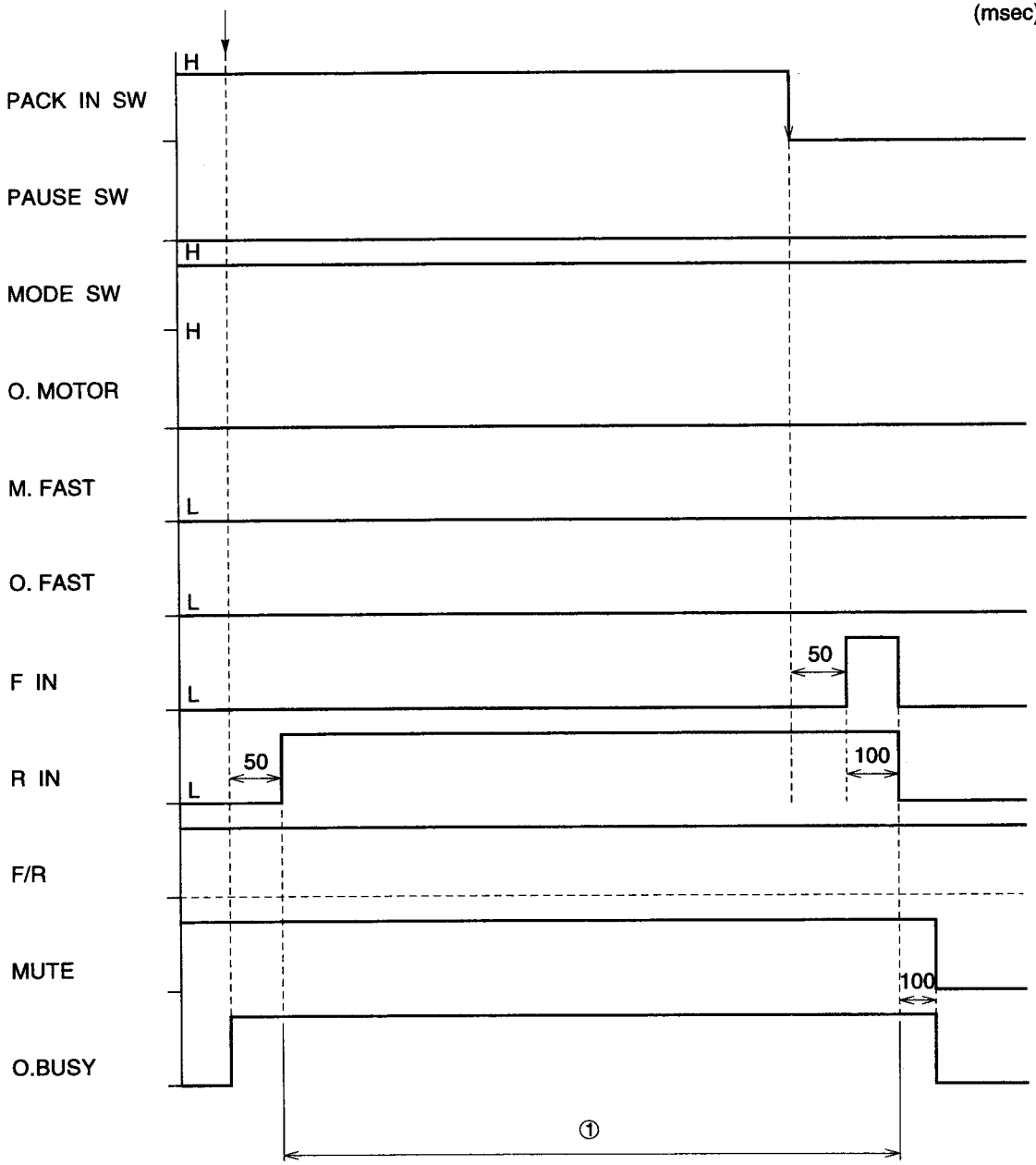
(msec)



① Tape wind stop: Main motor stops.
② Mode lever shift: Sub motor rotates and mode lever moves to a specified position and stops.

① TAPE巻取り停止：MAIN MOTOR停止
② MODE LEVER移動：SUB MOTORを回しMODE LEVERを目的の位置まで移動させ停止させる。

Shift MODE　　PAUSE → EJECT
移行モード　　PAUSE → EJECT



① Cassette pack eject: Rotates sub motor and lifts up the cassette holder.
Rotates the sub motor further to move slider forward and ejects the pack.

① カセットパック排出：SUB MOTORを回しCASSETTE HOLDERをリフトさせる。
さらにSUB MOTORを回しスライダーを手前に移動させPACKを排出させる。

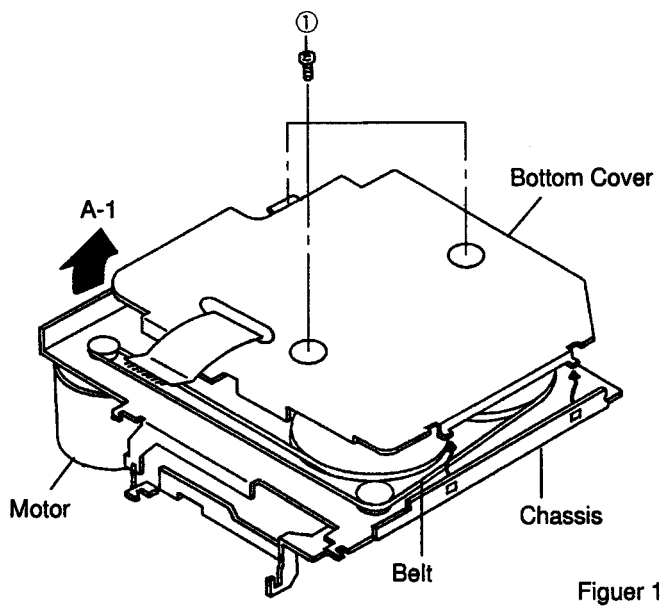
Disassembly, Assembly and Replacement of Functional Parts
機能部品の分解・組立及び交換方法

1. Disassembly and Assembly of Bottom Cover

(1) Turn the mechanism around as shown in Figure 1.
(2) Remove three screws ① as shown in Figure 1.
(3) Lift the bottom cover slowly from the position A-1, pull the hooks out of the holes in the chassis, and remove the bottom cover as shown in Figure 1.
(4) Set the mechanism to pack down status and place the mode lever to the position shown in Figure 2-1.
(5) Press the metal switch lever in direction shown by the arrow (refer to Figure 2-2), insert the pinion sub motor shaft to the pinion sub motor hook hole, and insert the chassis engagement claws into the chassis engagement holes. (Check to see the sub motor wire is placed in the normal guide position of B section.)
(6) Rotate the pinion sub motor counterclockwise after insertion of the bottom cover, and check to see the end place of A section in Figure 2 is closely touched. (refer to Figure 3)
(7) Fix the screws that have been removed.
NOTE : ① When fixing the bottom cover, be careful to avoid damage by the belt.
② Fasten the three screws with a fastening torque of 6 kg.cm.

1. ボトムカバーの分解方法及び組立方法

(1) メカを裏返しにします。(図1参照)
(2) 3本のネジ①を外します。(図1参照)
(3) A-1部からボトムカバーをゆっくりと浮かし、切り起こしの嵌合部を外し、分解します。(図1参照)
(4) 組立時は、メカをバックDOWN状態にして、モードレバーの位置を図2-1の位置に合わせます。
(5) メタルSWレバーを矢印方向(図2-2参照)に押し、SUB MOTOR嵌合軸をSUB MOTOR軸嵌合穴に挿入し、シャーシー嵌合ツメをシャーシー嵌合穴に挿入します。←ボトムカバー仮装着完了。
(この時、サブモーターワイヤーがB部正規ガイド位置にあること)
(6) ボトムカバー仮装着後SUB MOTORを左回りに回し、図2A部端面がシャーシと密着したことを確認します。(図3参照)
(7) 分解時に外したネジを止めます。
[注意] ① 組立時、ベルトに傷を付けない様に注意して下さい。
② 3本のネジは6kgcmのトルクで締め付けて下さい。



Figuer 1

Figure 2-1

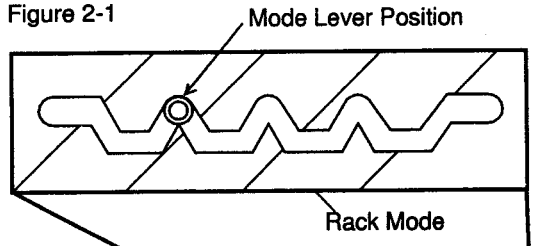
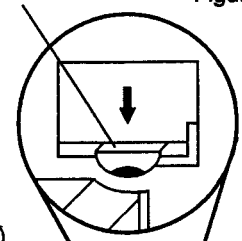


Figure 2-2



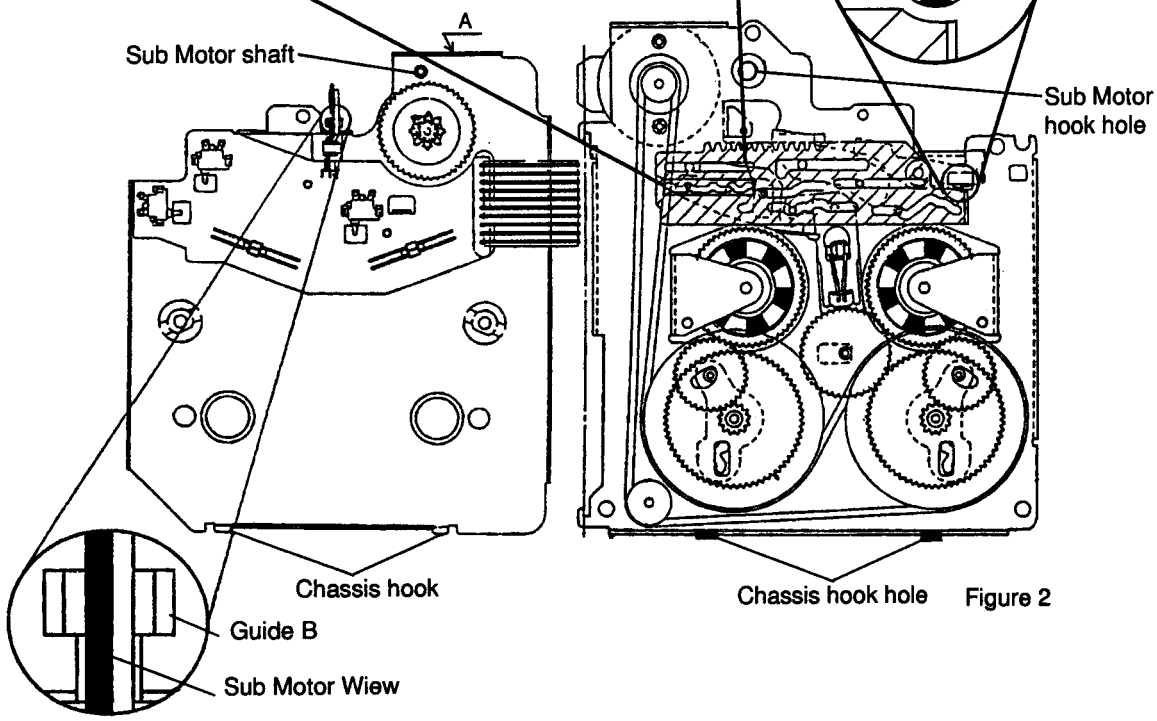


Figure 2

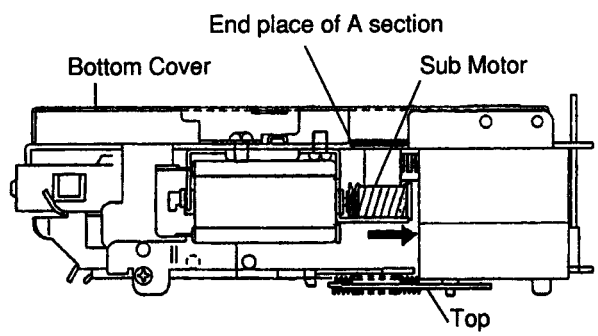


Figure 3

2. Replacement of the bottom cover mounting parts

2. ボトムカバーの取付部品の交換方法

a. Replacement of the inner gear/planet gear/sun gear

(1) Remove M1.2 lock washer ② as shown in Figure 4.

(2) Pull the eject pinion out of the inner gear and remove the inner gear, eject base pinion and sun gear as shown in Figure 4.

(3) Turn the eject base pinion, remove the three planet gear as shown in Figure 4.

(4) Apply the grease (PG-671) to the section B-1, and mount the inner gear/planet gear/sun gear following the removal steps in the reverse order. After replacement is smoothly. (Refer to Figure 6.)

NOTE : ① Do not reuse the used lock washer for remounting.
② Take care to avoid damage by piercing and tearing.
③ Do not forget insertion of planet gears. Check number of the gears also.

a. インナーギア／プラネットギア／サンギアの交換方法

(1) ロックワッシャー② (M1.2) を外します。(図4参照)

(2) イジェクトピニオンをインナーギアより引き抜き、インナーギア／イジェクトベースピニオン／サンギアの順に外します。(図4参照)

(3) イジェクトベースピニオンを裏返しにしてプラネットギア (3個) を外します。(図4参照)

(4) B-1部分にグリス (PG-671) を塗布し、取り外しの逆の手順で組み立てて下さい。尚交換後、ギアの回転がスムーズであるか確認して下さい。(図6参照)

[注意] ① 一度使用したロックワッシャーは組立時には使用しないで下さい。
② 口開き、めくれのない様に注意して下さい。
③ プラネットギアの挿入忘れ、不足のないこと。

b. Replacement of the photo sensor

(1) Remove eight solders 21 as shown in Figure 5.

(2) Remove the photo sensor from the photo P.C.Board as shown in Figure 5.

(3) Solder the legs so that the photo sensor is set as indicated by [ ] in Figure 5.

NOTE : ① When using the soldering iron, set the temperature of the soldering iron to 270° ±20℃and the soldering time to less than 3 seconds.
② Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damage.

b. フォトセンサーの交換方法

(1) 8ケ所の半田21を外し、フォトセンサーをフォト基板より外します。(図5参照)

(2) 良品のフォトセンサーを図中の[ ]と同じ方向になる様に半田付けします。(図5参照)

[注意] ① 半田ゴテを使用する際、半田ゴテ先温度270° ±20℃、半田付け時間3秒以下とする。
② ルーズ半田、ショート等のないこと。又、皮膜破れに注意すること。

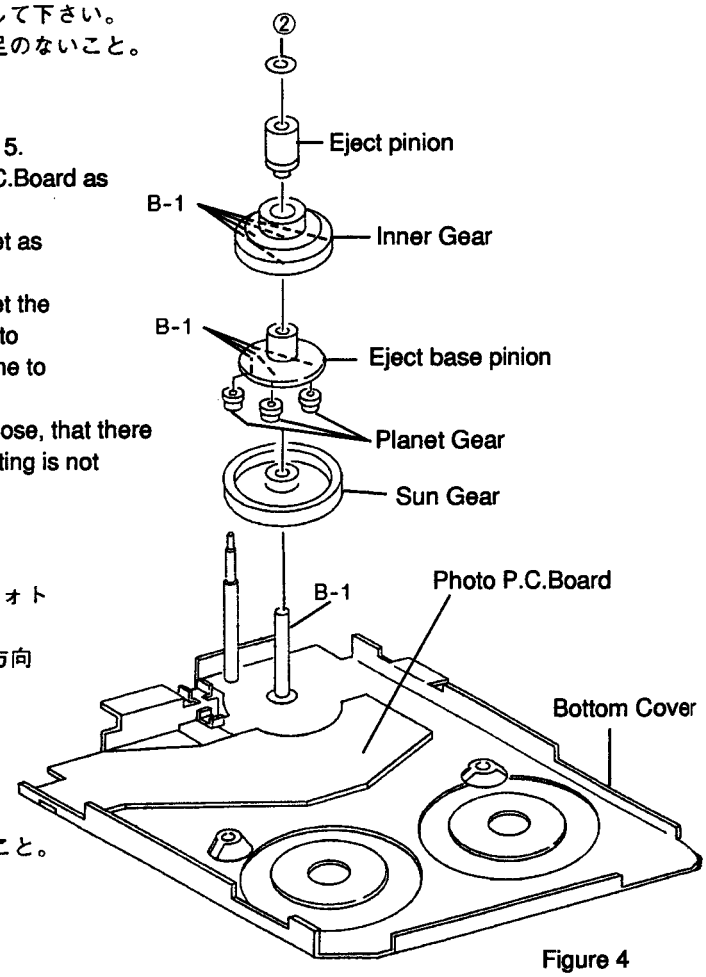


Figure 4

c. Replacement of the detector switch (Pause/Metal/Mode)

(1) Remove six solders 22 with which the switch is fixed as shown in Figure 5.

(2) Prepare the terminals of the switch of the new one as shown in Figure 6.

(3) After that, insert the switch into the photo P.C.Board, and solder the terminals.

NOTE : ① When using the soldering iron, refer to item 2-b to make sure that the temperature of the soldering iron and the soldering time are proper.

② Take care that the switch guide is properly fixed and straight.

c. 検出スイッチ（ポーズ・メタル・モード）の交換方法

(1) スイッチを止めている6ケ所の半田22をそれぞれ外します。(図5参照)

(2) 良品のスイッチの端子を水平に直します。(図6参照)

(3) フォト基板に差し込み、端子を半田付けします。

[注意] ① 項目2-bと同様に半田ゴテのコテ先温度、半田付け時間に注意すること。

② スイッチの浮き及び傾きがない様にすること。

3. Replacement of the mounting parts on the rear of the main chassis

3. メインシャーシー裏側取付部品の交換方法

a. Replacement of the belt

(1) After removing the bottom cover, remove the belt.

(2) Clean the new belt with absolute alcohol, and fix it as shown in Figure 7.

NOTE : ① When fixing the belt, make sure that is not twisted or dirty.

② When removing the belt, do not turn up the front of chassis.

a. ベルトの交換方法

(1) ボトムカバーを外した後、ベルトを取り外します。

(2) 良品のベルトを無水アルコールでクリーニングしてから掛けます。(7図参照)

[注意] ① 取り付け時、ねじれ及び汚れがない様にすること。

② ベルトを取り外した時、シャーシーを表側にしないこと。

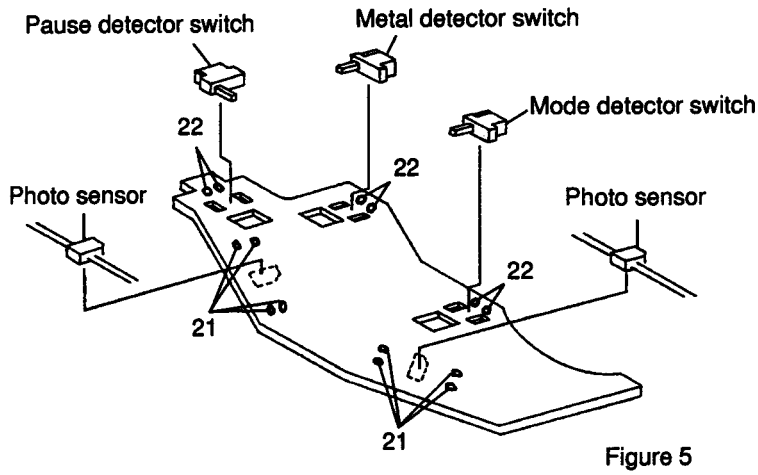


Figure 5

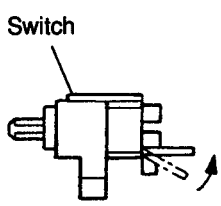


Figure 6

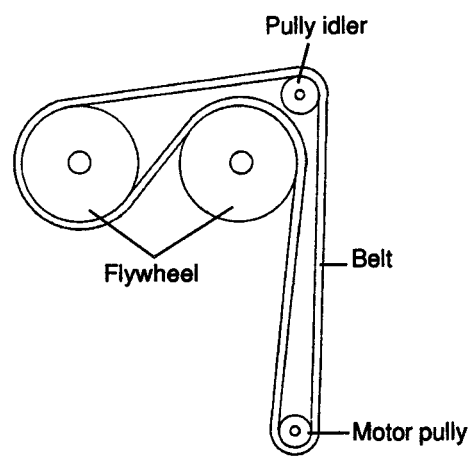


Figure 7

b. Replacement of the main motor
(1) After removing the belt, remove solder ⑫-1, and remove the wire flat (2P) from the control P.C.Board as shown in Figure 10.
(2) Remove two screws ⑦, and remove the main motor as shown in Figure 8.
(3) Mount the new motor following the removal steps in the reverse order.
NOTE : ① When using the soldering iron, set the temperature of the soldering iron to 320° ±20℃ and the soldering time to less than 3 seconds.
② Since the wire flat is very easily damaged, handle it with care.
③ Fasten the two screws with a fastening torque of 2kg.cm.

b. メインモーターの交換方法
(1) ベルトを外した後、半田⑫-1を外し、ワイヤーフラット（2P）をコントロール基板より外します。(図10参照)
(2) 2本のネジ⑦を外し、メインモーターを外します。(図8参照)
(3) 良品のメインモーターを取り外し方法の逆の手順で組み立てます。
[注意] ①半田ゴテを使用する際、半田ゴテ先温度320° ±30℃、半田付け時間3秒以下とする。
②ワイヤーフラットは損傷し易いので取扱いには十分注意すること。
③2本のネジは2kgcmのトルクで締め付けること。

c. Replacement of the flywheel
(1) After removing the belt, pull out the two flywheels. Take care not to loose the polyslider washer ⑤ located between the flywheel and the chassis. (Refer to Figure 8)
(2) Fix the polyslider washer to the new flywheel and mount the flywheel to chassis.

c. フライホイールの交換方法
(1) ベルトを外した後、2個のフライホイールを引き抜きます。この時フライホイールとシャーシーの間にそれぞれ1個のポリスライダーワッシャー⑤がありますので紛失しない様に注意して下さい。(図8参照)
(2) 良品のフライホイールにポリスライダーワッシャーを取り付け、シャーシに取り付けます。

d. Replacement of the rack mode
(1) Remove M1.7 lock washer ③, and remove the rack mode as shown in Figure 8.
(2) Apply the molykote G paste to the section D-3, and mount the rack mode following the removal steps in the reverse order. (Refer to Figure 8)
NOTE : ① Check to see the rack mode can move left to right in its full stroke.
② Do not reuse the used lock washer for remounting.
③ Take care to avoid damage by piercing and tearing.

d. ラックモードの交換方法
(1) 2個のロックワッシャー③（M1.7）を外し、シャーシーより引き抜き、ラックモードを外します。(図8参照)
(2) 良品のラックモードのD-3部分にモリコートGペーストを塗布し、取り外しの逆の手順で取り付けます。
[注意] ① ラックモードは左右に全ストローク動作することを確認する。
② 一度使用したロックワッシャーは組立時には使用しないで下さい。
③ ロックワッシャー取り付け時、口開き、めくれのない様に注意すること。

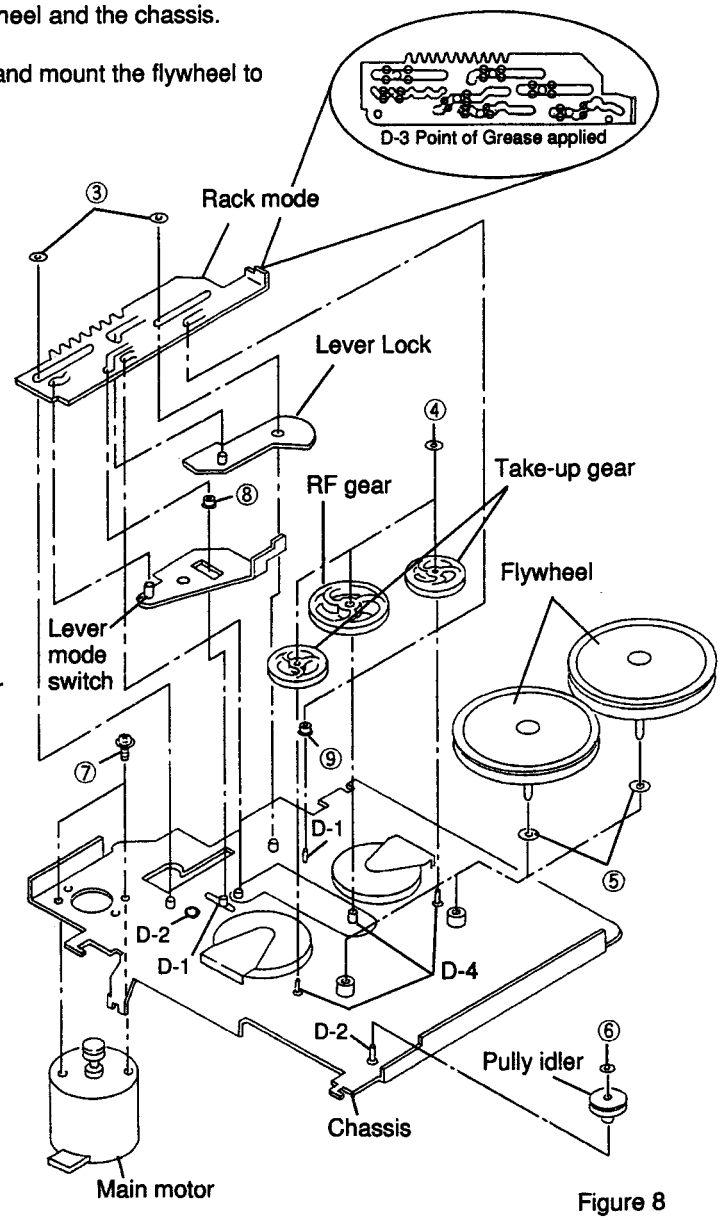


Figure 8

e. Replacement of the lever lock/lever mode switch/roller mode

(1) After removing the rack mode, remove the lever lock and lever mode switch. (Refer to Figure 8)

(2) Pull it up from the stud and remove the two roller mode ⑧, ⑨ as shown in Figure 8.

(3) Apply the molykote G paste to the section D-1, the grease (PG-671) to the section D-2 and mount the roller mode/lever mode switch/lever lock following the removal steps in the reverse order.

NOTE : ① Check to see the roller mode is inserted without fail.

e. レバーロック／レバーモードスイッチ／ローラーモードの交換方法

(1) ラックモードを外した後、レバーロック、レバーモードスイッチの順に引き抜きます。（図8参照）

(2) 2個のローラーモード⑧、⑨をスタットより引き抜きます。（図8参照）

(3) D-1部分にモリコートGペースト、D-2部分にグリス（PG-671）を塗布し、取り外し方の逆の手順で取り付けます。

[注意] ① ローラーモードの挿入忘れがないこと。

f. Replacement of gears

f-1 Replacement of the RF gear

(1) Remove M1.2 lock washer④, pull it up from the stud and remove the gear as shown in Figure 8.

(2) Mount it, following the removal steps in the reverse order.

f-1 RFギアの交換方法

(1) ロックワッシャー④（M1.2）を外し、スタットより引き抜きギアを外します。（図8参照）

(2) 取り外し方の逆の手順で取り付けます。

f-2 Replacement of the take-up gear

(1) Remove M1.2 lock washer④, pull it up from the stud and remove the gear as shown in Figure 8.

(2) Mount it, following the removal steps in the reverse order.

NOTES on f-1 and f-2 :

① Do not reuse the used lock washer for remounting.

② Take care to avoid damage by piercing and tearing.

f-2 テイクアップギアの交換方法

(1) 2個のロックワッシャー④（M1.2）を外し、スタットより引き抜きギアを外します。（図8参照）

(2) 取り外し方の逆の手順で取り付けます。

[f1, f2の注意]

① 一度使用したロックワッシャーは組立時には使用しないで下さい。

② ロックワッシャー取り付け時、口開き、めくれのない様に注意すること。

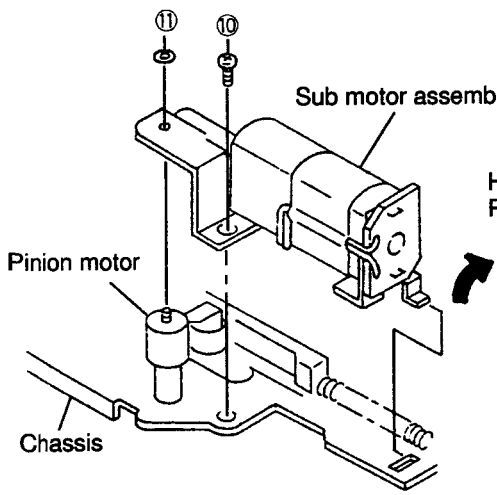


Figure 9

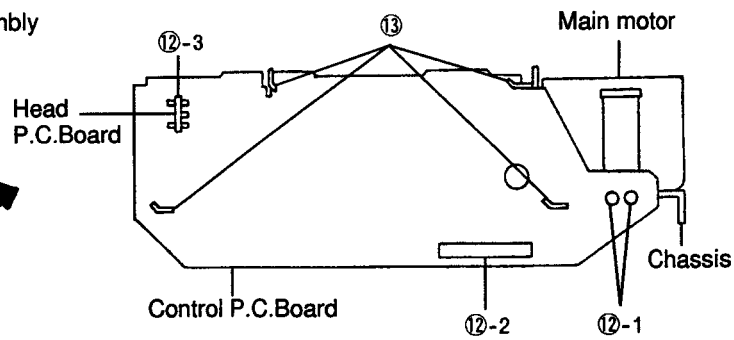


Figure 10

4. Replacement of the parts mounted on the front of the main chassis

4. メインシャーシ表側部品の交換方法

a. Replacement of the control P.C.Board

(1) Remove four solders ⑫ and remove the head P.C.Board and the two wire flat as shown in Figure 10.
(2) Remove four claws ⑬ and remove the P.C.Board as shown in Figure 10.
(3) After replacing the old P.C.Board with a new one, mount it following the removal steps in the reverse order.
NOTE : ① Since the wire flat is very easily damaged, handle it with care.
② When using the soldering iron, set the temperature of the soldering iron to 320° ±30℃ and the soldering time to less than 3 seconds, but solder point ⑫-3 to less than 1 second.
③ Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damage.

a. コントロール基板の交換方法

(1) 4ケ所の半田⑫を外し、ヘッド基板と2本のワイヤーフラット（2P)、(10P) をそれぞれ外します。(図10参照)
(2) 4ケ所のツメ⑬を外し、コントロール基板を外します。(図10参照)
(3) 良品のコントロール基板と交換後、取り外し方の逆の手順で基板を取り付けます。
[注意] ① ワイヤーフラットは損傷し易いので取扱いには十分注意すること。
② 半田ゴテを使用する際、半田ゴテ先温度320° ±30℃、半田付け時間3秒以下とする。
但し、⑫-3は1秒以下とする。
③ ルーズ半田、ショート等のないこと。

b. Replacement of the sub motor assembly

(1) Remove M1.2 lock washer ⑪ and one screw ⑩ as shown in Figure 9.
(2) Remove the sub motor assembly by pulling it up in the direction of the arrow as shown in Figure 9.
(3) Mount it, following the removal steps in the reverse order.
NOTE : ① Do not reuse the used lock washer for remounting.
② Take care to avoid damage by piercing and tearing.
③ Fasten the one screw with a fastening torque of 6kg.cm.

b. サブモーター組立の交換方法

(1) ロックワッシャー⑪ (M1.2) と1本のネジ⑩を外します。(図9参照)
(2) 図中の矢印の方向へ持ち上げながらサブモーター組立を外します。(図9参照)
(3) 取り外し方の逆の手順で取り付けます。
[注意] ① 一度使用したロックワッシャーは組立時には使用しないで下さい。
② ロックワッシャー取り付け時、口開き、めくれのない様に注意すること。
③ ネジは6kgcmのトルクで締め付けること。

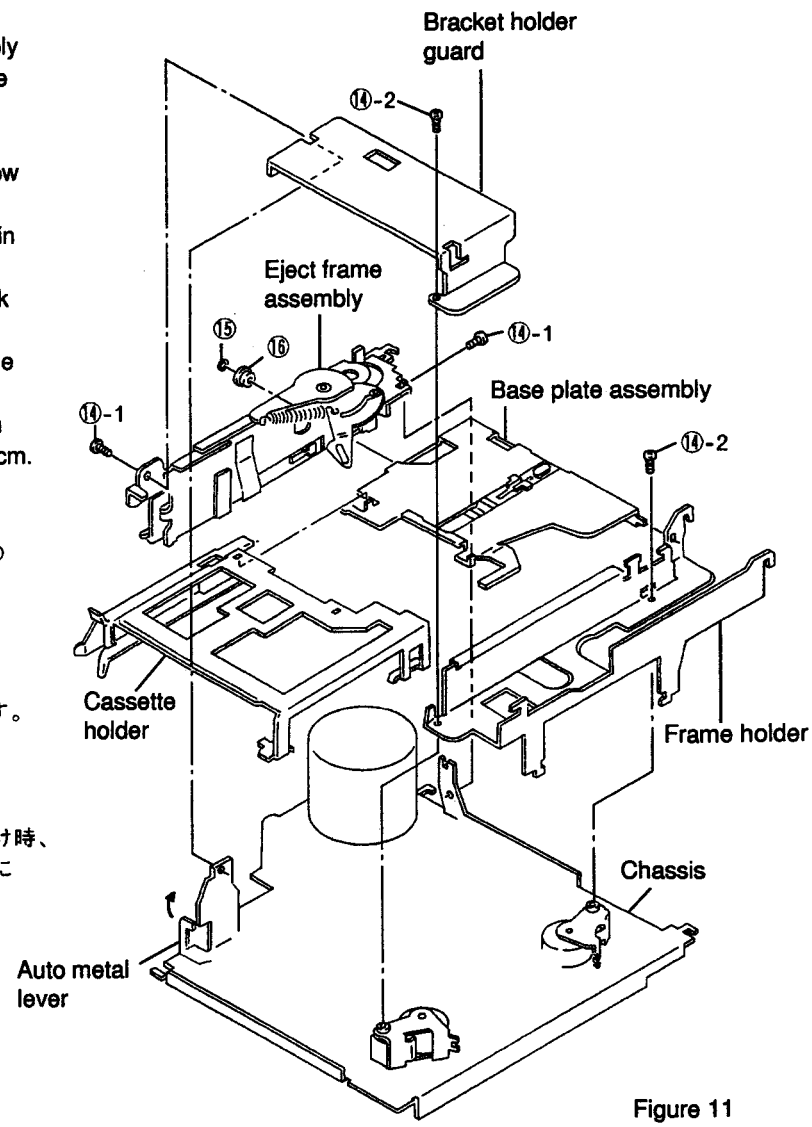


Figure 11

c. Disassembly and assembly of the cassette holder

(1) Remove four screws ⑭ and remove the eject frame assembly and the frame holder as shown in Figure 11.

(2) Remove M1.2 lock washer ⑮ and plate base roller ⑯ and remove the cassette holder and the base plate assembly as shown in Figure 11.

(3) Remount them following the removal steps in the reverse order.

NOTE : ① When mounting the cassette holder and the base plate, insert the slider shaft into the eject arm and fix them turning the slider shaft in the direction indcated by the arrow in the figure . Make sure that the cassette holder and the base plate are in the cassette-in mode during this operation. (Refer to Figure 12)

② When mounting the eject frame assembly, push the auto metal lever in the direction indicated by the arrow in the Figure 11.

③ When mounting the base plate assembly and the eject frame assembly, or when mounting the eject frame assembly to the chassis, do not apply excessive force to avoid deformations of the eject arm and the frame.

④ Do not reuse the used washers. Take care to avoid damage by piercing and tearing.

⑤ Fasten the two screws ⑭-1 with a fastening torque of 6kg.cm. and the two screws ⑭-2 with a fastening torque of 1.5kg.cm.

c. カセットホルダーの分解方法及び組立方法

(1) 4本のネジ⑭を外し、イジェクトフレーム組立及びフレームホルダーを外します。(図11参照)

(2) ロックワッシャー⑮ (M1.2) とプレートベースローラー⑯を外し、カセットホルダーとベースプレート組立を外します。(図11参照)

(3) 分解方法と逆の手順で取り付けます。

[注意] ① カセットホルダーとベースプレート組立を組み立てる際、スライダーのシャフトをイジェクトアームに挿入し、図の様に矢印方向に回しながら取り付けます。この時カセットホルダーとベースプレートはカセットインの状態で行うこと。(図12参照)

② イジェクトフレーム組立をシャーシーに取り付ける際、オートメタルレバーを図の様に矢印方向に押して下さい。(図11参照)

③ ベースプレート組立とイジェクトフレーム組立を取り付ける際、又、シャーシーとイジェクトフレーム組立を取り付ける際は、必要以上の力を加えないで下さい。(イジェクトアーム、フレームの変形防止の為)

④ 一度使用したワッシャーは、使用しないこと。又、口開き、めくれのないこと。

⑤ ネジ⑭-1は6kgcm、⑭-2は1.5kgcmのトルクで締め付けること。

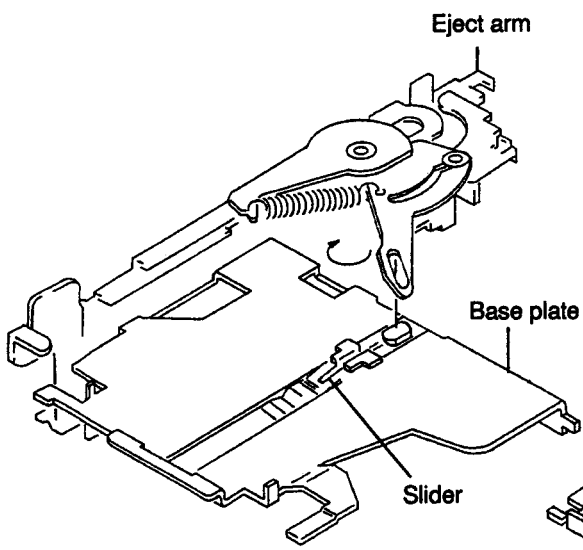


Figure 12

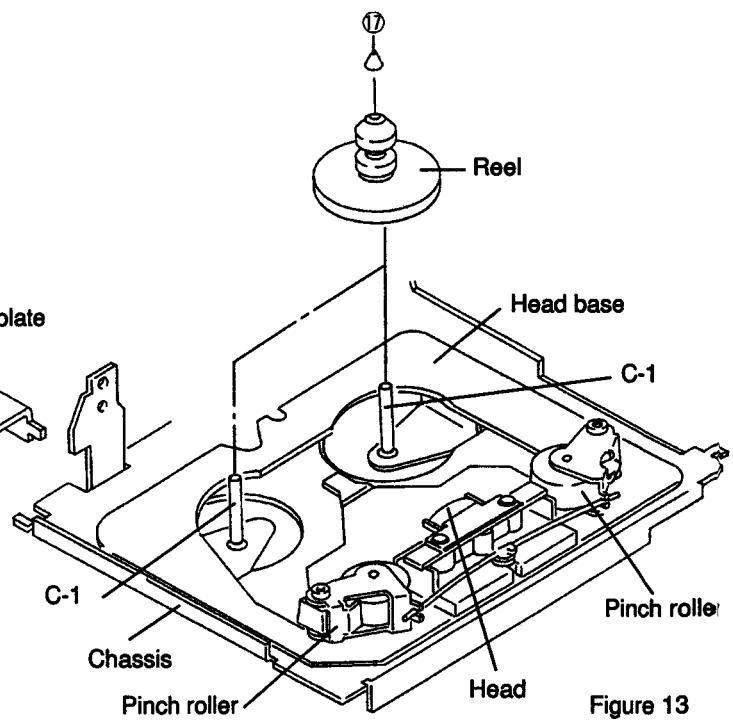


Figure 13

d. Replacement of the reels
(1) Remove two reel cap ⑰ as shown in Figure 13.
(2) After replacement, apply the grease (PG-671) to the section C-1, and mount the new reels following the removal steps in the reverse order.
(3) After mounting, check the tape speed and the wow & flutter with test tape MTT-111N.
NOTE : ① Since the reel is easily loosened if the cap is gripped, always handle it gripping, the gear.

d. リールの交換方法
(1) 2個のリールキャップ⑰をそれぞれ外します。(図13参照)
(2) 良品のリールと交換後C-1部分にグリス (PG-671) を塗布し、取り外し方の逆の手順で取り付けます。
(3) 取り付け後、必ずテストテープ (MTT-111N) でテープスピード・ワウフラッターの確認をすること。
[注意] ① リールの取り外し、取り付けの際、キャップをつかむと外れ易いので必ずギア部をつかんで行って下さい。

e. Replacement of the pinch rollers
(1) Remove pinch roller spring ⑱ as shown in Figure 14.
(2) Remove M3.1 two lock washers ⑲ and remove the pinch roller and guide pack as shown in Figure 14.
(3) Mount the pinch rollers following the removal steps in the reverse order. Apply the molykote G paste to the section C-2 as shown in Figure 14.
NOTE : ① Make sure that the pinch rollers are thoroughly fixed and that they are not deformed.
② Do not reuse the used lock washers for remounting.
③ Take care to avoid damage by piercing and tearing.

e. ピンチローラーの交換方法
(1) ピンチローラースプリング⑱を外します。(図14参照)
(2) 2個のロックワッシャー⑲ (M3.1) をそれぞれ外し、ガイドパックと一緒にピンチローラーを外します。(図14参照)
(3) C-2部分にモリコートGペーストを塗布し、取り外し方の逆の手順で取り付けます。
[注意] ① ピンチローラーの半掛け、変形のないこと。
② 一度使用したロックワッシャーは組立時には使用しないで下さい。
③ ロックワッシャー取り付け時、口開き、めくれのない様に注意すること。

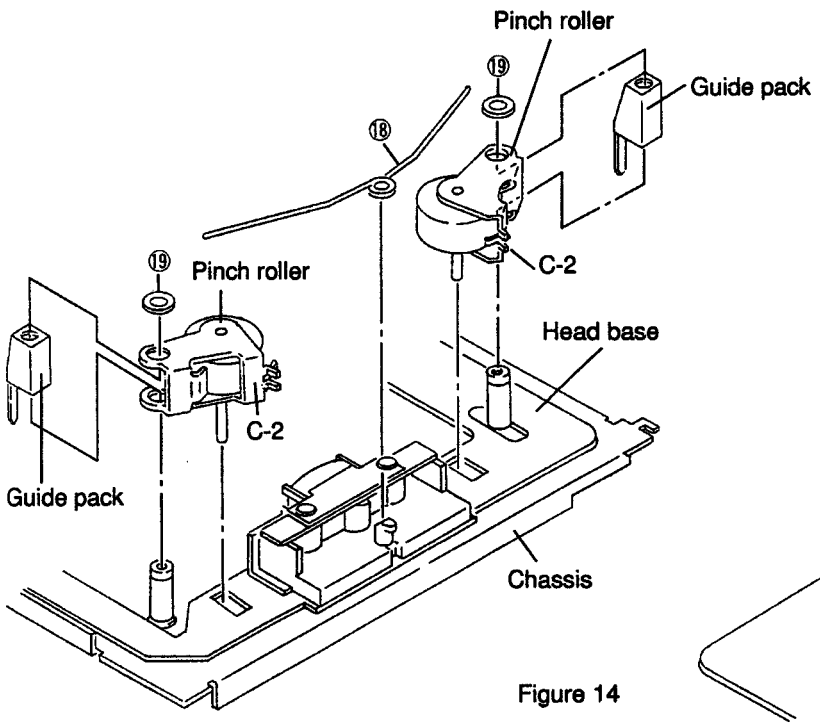


Figure 14

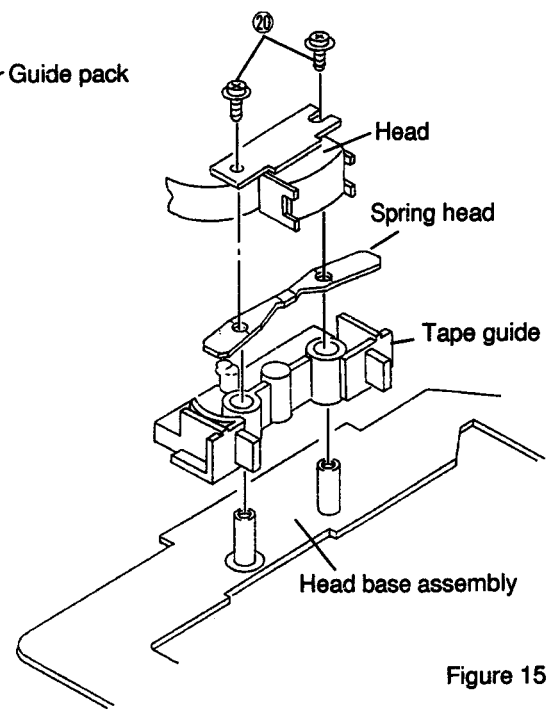


Figure 15

f. Replacement of the head

(1) After removing the pinch roller spring, remove two screws ⑳ as shown in Figure 15.

(2) Remove solder 23 and remove the head from the head P.C.Board as shown in Figure 16.

(3) After replacement, mount the new head following the removal steps in the reverse order.

NOTE : ① When using the soldering iron, set the temperature of the soldering iron to270° ±20℃ and the soldering time to less than 1 second.

② Take care that the solder is not loose, that there is no shortcircuit and that the coating is not damage.

③ Do not bring the soldering iron near the head P.C.Board. Make sure that the head P.C.Board is not lifted.

④ Fasten the two screws with a fastening torque 1kg.cm. Note that the tension of the head spring can be descreased if the screws are fastened too strongly.

(4) Adjust the height of the head as shown in Figure 17, 18 and 19.

(4) -1 Place the height adjustment gauge(AI-500) on the head base, and adjust the height so that the check bar fits in the tape head guide smoothly.

(4) -2 When the check bar touches the top (or bottom) of the tape guide, insert a spacer (t0.1mm or polyslider washer t0.13mm). If necessary, remove the spacer.

NOTE : ① If you do not have a height gauge like described in (4)-1, run the tape at normal speed and adjust the height of the head and the tape head guide so that the tape does not curl.

(5) After having assembled the complete mechanism, adjust the angle of the head with test tape MTT-114NB. (Refer to chapter "Adjustment of the head angle".) After the adjustment, apply the screw lock and fix the screws.

f. ヘッドの交換方法

(1) ピンチローラースプリングを外した後、2本のネジ⑳を外します。(図15参照)

(2) 半田23を外し、ヘッド基板からヘッドを取り外します。(図16参照)

(3) 良品のヘッドと交換後、取り外し方の逆の手順で取り付けます。

[注意] ① 半田ゴテを使用する際、半田ゴテ先温度270° ±20℃、半田付け時間1秒以下とする。

② ルーズ半田、ショート等のないこと。

③ ヘッド基板には、コテ先を当てないこと。又、ヘッド基板に浮きがない様注意すること。

④ 2本のネジは1kgcmのトルクで締め付けること。但し、ネジを締め過ぎるとヘッドバネがヘタり、バネ性がなくなるので注意すること。

(4) ヘッド高さ調整を行います。(図17、18、19参照)

(4) -1 高さゲージ (AI-500) をヘッドベースにのせ、チェック・バーがテープヘッドガイドにスムーズに入る高さに合わせます。

(4) -2 テープガイドの上 (又は下) にチェック・バーが当たる時は、スペーサー (t0.1mm又はポリスライダーワッシャーt0.13mm) を一枚入れます。又は、スペーサーを外すことによって当りをなくす様にします。

[注意] ① (4) -1の様に高さゲージがない場合は、テープを通常走行させ、テープカーリングが生じなくなる様に高さ (ヘッド及びテープヘッドガイド) を調整します。

(5) 最終的な1台のメカと言う状態に組み上げた後、テストテープ (MTT-114NB) でヘッドの角度を調整します。(ヘッド角度調整方法の項目を参照して下さい。) 調整後、ネジロックを塗布し、ネジを固定します。

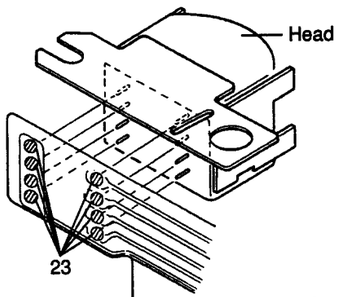


Figure 16

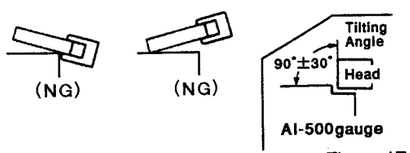


Figure 17

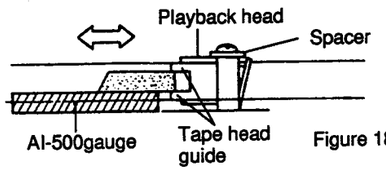


Figure 18

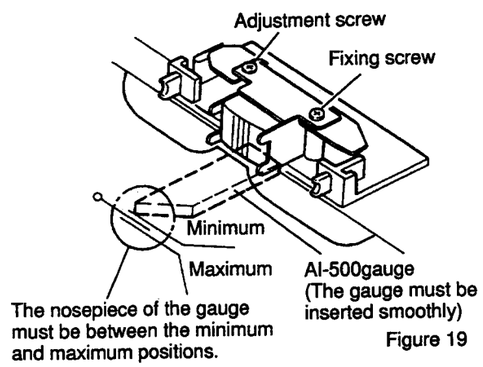
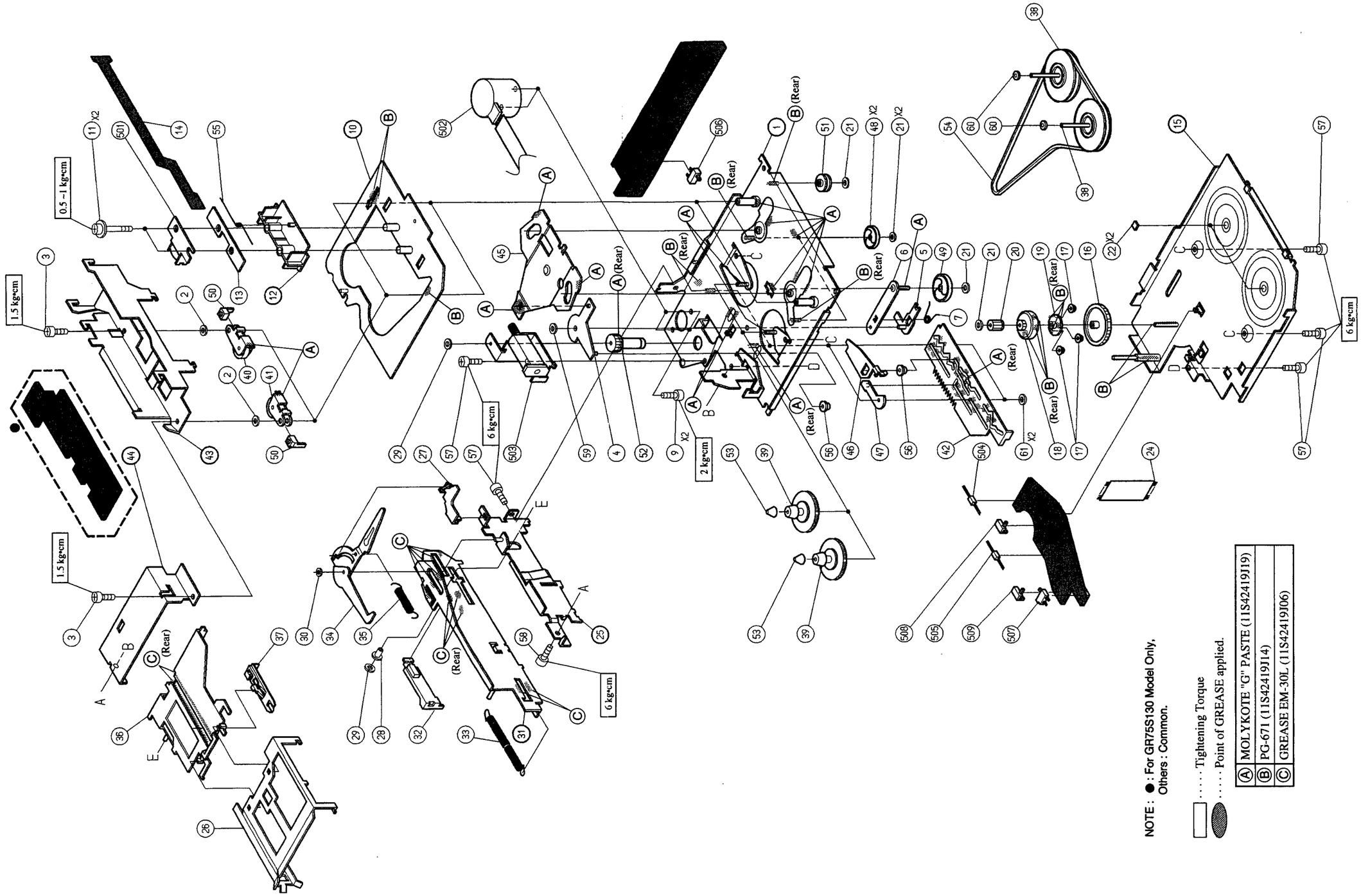


Figure 19

MEMO

Exploded View (Cassette Deck Mechanism)



Cassette Deck Mechanism Assembly Parts List

NOTE:No parts number on parts list are not supplied.

Symbol No.		Index	Part No.	Description
	2		04B41345P32	Washer, Lock (M3.1)
	3		03S43997P63	Screw, Pan (M1.7 ×4)
	4	3-D	01A71716W01	Assy., Riv. Select Swing
	5	2-F	01A71714W01	Assy., Riv. RF Lever A
	6	2-E	01A71715W01	Assy., Riv. RF Lever B
	7	2-F	41A71781W01	Spring, RF
	9	3-D	03C42723U12	Screw, Cup (M2 ×2.5)
	11		03A80452W01	Screw, F Locks (M2 ×10.7)
	13	2-B	41A31756W01	Spring, Head
○	14	2-B	84T45462W01	Head P.C.Board
●	14	2-B	84T25151W01	Head P.C.Board
	16	2-G	44A71747W01	Gear, Sun
	17		44A71748W01	Gear, Planet
	18	3-F	44A71749W01	Gear, Inner
	19	2-F	44A71751W01	Pinion, Eject Base
	20	2-F	44A71752W01	Pinion, Eject
	21		04B41345P11	Washer, Lock (M1.2)
	22	2-G	43A41656W01	Spacer, UHMW-PE
	24	3-G	30T65174W07	Wire, Flat 10P
	26	5-B	07B71778W01	Holder, Cassette
	27	3-C	45A71736W01	Lever, Pack In Switch
	28	5-C	43A71775W01	Roller, Plate Base
	29		04B41345P01	Washer, Lock (M1.2)
	30	4-B	04B41345P15	Washer, Lock (M1.2)
	32	5-C	44A71753W01	Rack, GR-S
	33	5-C	41A80634W01	Spring, Rack
	34	4-C	01A71720W01	Assy., Riv. Eject Arm A
	35	4-C	41B63283F11	Spring
	36	4-A	01A71712W01	Assy., Riv. Plate Base
	37	3-B	45B71750W01	Slider
	38		01A71783W01	Flywheel
	39		01A71784W01	Reel
	40	3-B	01B81372W01	Assy., Pinch Roller
	41	3-B	01B81372W02	Assy., Pinch Roller
	42	3-F	44B71726W01	Rack, Mode
	45	2-C	45B71729W01	Lever, Select
	46	3-E	45A71737W01	Lever, Mode Switch
	47	3-E	45A71733W01	Lever, Lock
	48	2-E	44A71741W01	Gear, Take Up
	49	2-F	44A71742W01	Gear, RF
	50		43A71743W01	Guide, Pack
	51	2-E	49A71744W01	Pulley, Idler
	52	3-D	44A71746W01	Pinion, Motor
	53		49A71003W01	Reel, Cap
	54	2-F	42A71780W01	Belt
	55	2-B	41A10387W01	Spring, Pinch Roller
	56		43A71774W01	Roller, Mode
	57		03S44205G30	Screw, Pan (M2.6 ×4)
	58	4-D	03A80629W01	Screw, Special (M2.6 ×6)
	59	3-D	04B41345P02	Washer, Lock (M1.7)
	60	2-F	04S40075G05	Washer, Polyslider (M2.1)
●	or	2-F	04T55449W01	Washer, Teflon
	61	3-F	04B41345P13	Washer, Lock (M1.7)

Miscellaneous

	501	2-A	88T75612W01	Head
○	502	2-C	01V74500W16	Assy., Main Motor (13.2V-55mA)
●	502	2-C	01V84200W63	Assy., Main Motor (6V-90mA)
	503	3-D	01V74500W23	Assy., Sub Motor (7V-370mA)
	504	3-F	51T63433F03	Sensor, Photo ON2170-R2
	505	4-F	51T63433F03	Sensor, Photo ON2170-R2
	506	2-D	40T15222W01	Switch, Detector (PACK IN)
	507	4-F	40T15382W02	Switch, Detector (PAUSE)
	508	4-F	40T15382W02	Switch, Detector (MODE)
	509	4-F	40T15382W02	Switch, Detector (METAL)

NOTE : ○: For GR75S120 Model Only, ●: For GR75S130 Model Only, Others : Common.

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12 / 95-S
68E23241S01
Printed in Japan

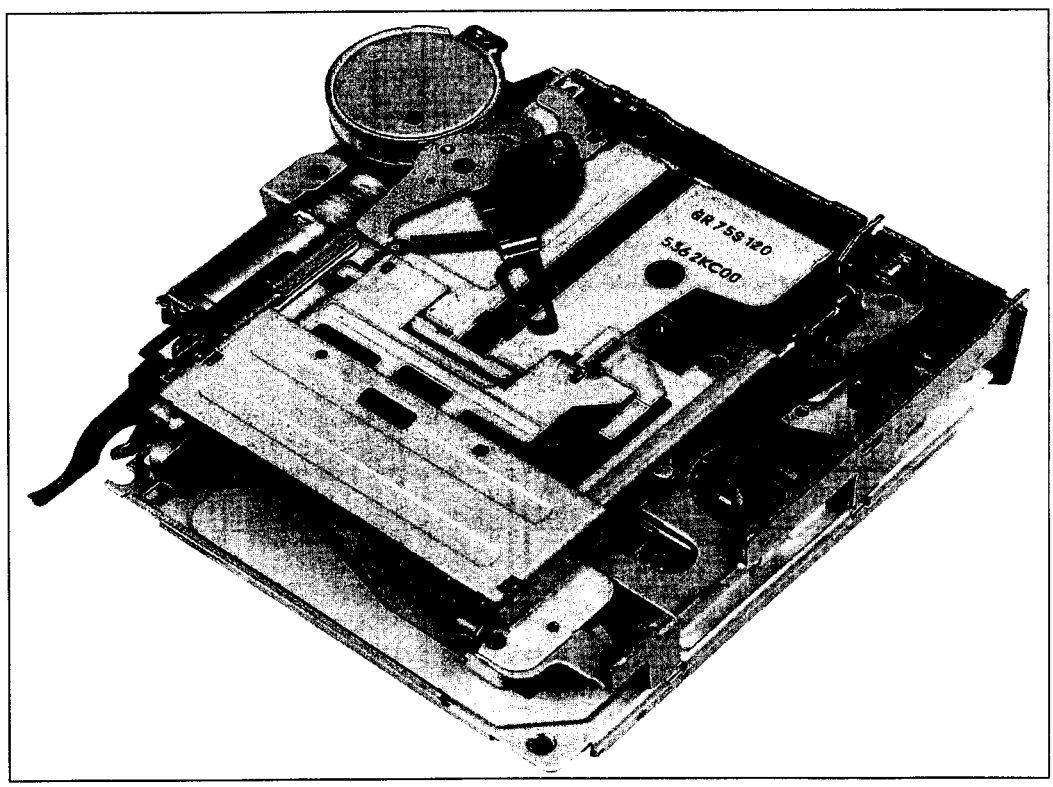
ALPINE®

SERVICE MANUAL

Cassette Deck Mechanism

ADDENDUM & REVISED

- This manual is described on GR75S310 only. The GR75S310 is developed from GR-S SERIES. For information that is not mentioned in this service manual, refer to the Service Manual • GR-S SERIES (68E23241S01).
- 当マニュアルはGR75S310についてのみ記載しております。又、GR-S SERIESがベースモデルとなっておりますので、相違部分のみ記載しております。詳細についてはGR-S SERIES (68E23241S01) を参照願います。



GR-S SERIES

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Basic Operation of GR-S Mechanism
Disassembly, Assembly and Replacement of Function Parts
] Refer to the Service Manual · GR-S SERIES (Part No. 68E23241S01).

NOTE : Due to continuing product improvement, specifications and designs are subject to change without notice.

Cassette Deck Mechanism Assembly Parts List

NOTE: The parts is not mentioned, refer to the Service Manual · DR-S SERIES (Part No.68E23241S01).

Symbol No.	Index	Part No.	Description
4	3-D	01A90342W01	Assy., Riv. Select Swing
5	2-F	01A90340W01	Assy., Riv. RF Lever A
6	2-F	01A90341W01	Assy., Riv. RF Lever B
11	2-A	03A80452W02	Screw, F Locks (M2X10.7)
13	2-B	41A31756W02	Spring, Head
26	5-B	07B40012W02	Holder, Cassette
27	3-C	45A71736W02	Lever, Pack In Switch
34	4-B	01A90346W01	Assy., Riv. Eject Arm (B)
36	4-A	01A90338W01	Assy., Riv. Plate Base
38		01A90350W01	Assy., Flywheel
40	3-B	01B30863W01	Assy., Pinch Roller
41	3-B	01B30863W02	Assy., Pinch Roller
42	3-F	44B90318W01	Rack, Mode
45	2-C	45B90320W01	Lever, Select
46	3-E	45A71737W02	Lever, Mode Switch
47	3-E	45A71733W02	Lever, Lock
53		49A81855W01	Reel, Cap
54	2-F	42A71780W02	Belt
55	2-B	41A10387W02	Spring, Pinch Roller
62	3-B	45A90322W01	Lever, Eject Arm A
Miscellaneous			
501	2-B	88T95215W02	Head
503	3-C	01V91700W81	Assy., Sub Motor (7V-370mA)

カセットデッキメカニズム関係部品表

※ 記載されていない部品については、サービスマニュアル・GR-S SERIES (68E23241S01) を参照願います。

記号	索引	部品番号	部品名	標準卸価格
4	3-D	01A90342W01	Assy., Riv. Select Swing	—
5	2-F	01A90340W01	Assy., Riv. RF Lever A	—
6	2-F	01A90341W01	Assy., Riv. RF Lever B	—
11	2-A	03A80452W02	Screw, F Locks (M2X10.7)	45
13	2-B	41A31756W02	Spring, Head	60
26	5-B	07B40012W02	Holder, Cassette	260
27	3-C	45A71736W02	Lever, Pack In Switch	—
34	4-B	01A90346W01	Assy., Riv. Eject Arm (B)	—
36	4-A	01A90338W01	Assy., Riv. Plate Base	—
38		01A90350W01	Assy., Flywheel	—
40	3-B	01B30863W01	Assy., Pinch Roller	240
41	3-B	01B30863W02	Assy., Pinch Roller	240
42	3-F	44B90318W01	Rack, Mode	—
45	2-C	45B90320W01	Lever, Select	—
46	3-E	45A71737W02	Lever, Mode Switch	—
47	3-E	45A71733W02	Lever, Lock	—
53		49A81855W01	Reel, Cap	45
54	2-F	42A71780W02	Belt	—
55	2-B	41A10387W02	Spring, Pinch Roller	—
62	3-B	45A90322W01	Lever, Eject Arm A	—
その他の電気部品				
501	2-B	88T95215W02	Head	1,210
503	3-C	01V91700W81	Assy., Sub Motor (7V-370mA)	1,440

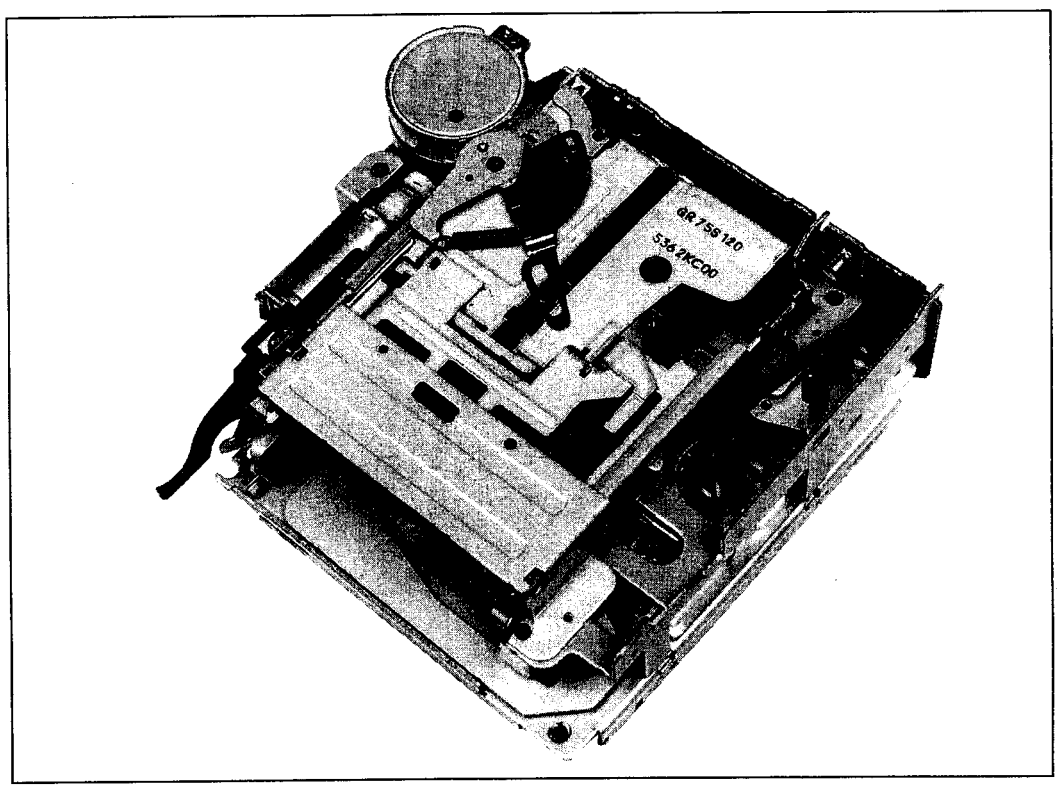
ALPINE®

SERVICE MANUAL

Cassette Deck Mechanism

ADDENDUM & REVISED (II)

- This manual is described on GR75S410/42Y only. The GR75S410/42Y is developed from GR-S SERIES. For information that is not mentioned in this service manual, refer to the Service Manual • GR-S SERIES (68E23241S01).
- 当マニュアルはGR75S410/42Yについてのみ記載しております。又、GR-S SERIESがベースモデルとなっておりますので、相違部分のみ記載しております。詳細についてはGR-S SERIES (68E23241S01) を参照願います。



GR-S SERIES

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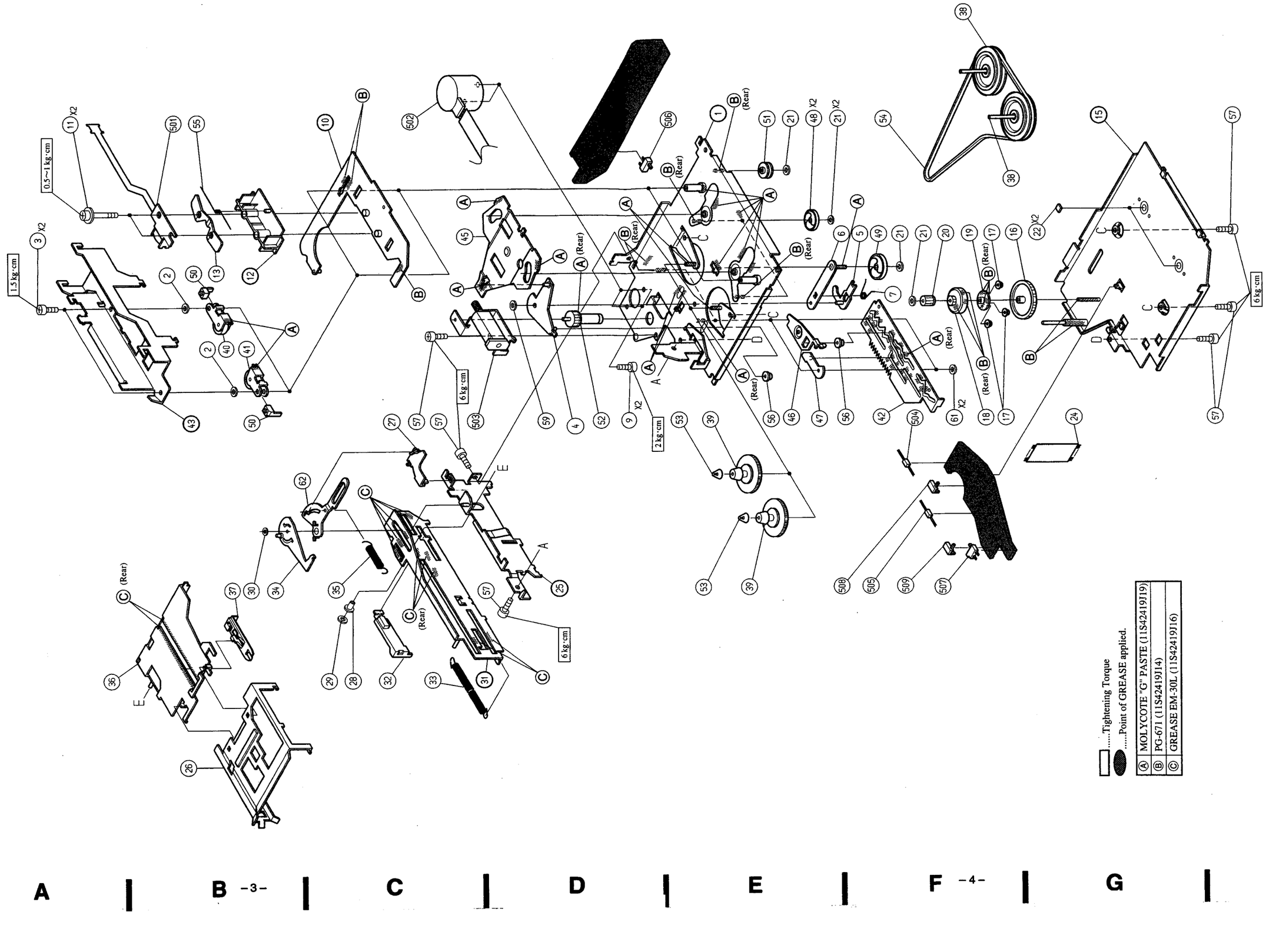
Exploded View (Cassette Deck Mechanism) ..... 5 to 6

Basic Operation of GR-S Mechanism
Disassembly, Assembly and Replacement of Function Parts

Refer to the Service Manual · GR-S SERIES (Part No. 68E23241S01).

NOTE: Due to continuing product improvement, specifications and designs are subject to change without notice.

Exploded View (Cassette Deck Mechanism)



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10 / 96-S
68E24873S01
Printed in Japan

ALPI-00441/ Druck 4

Cassette Deck Mechanism Assembly Parts List

NOTE:No parts number on parts list are not supplied.

Symbol No.	Index	Part No.	Description
	2	04B41345P32	Washer, Lock (M3.1)
	3	03S43997P63	Screw, Pan (M1.7X4)
	4	3-D 01A90342W02	Assy., Riv. Select Swing
	5	2-F 01A71714W01	Assy., Riv. RF Lever A
	6	2-E 01A90341W02	Assy., Riv. RF Lever B
	7	2-F 41A71781W01	Spring, RF
	9	3-D 03C42723U12	Screw, Cup (M2X2.5)
	11	2-A 03A80452W02	Screw, F Locks (M2X10.7)
	13	2-B 41A31756W01	Spring, Head
	16	2-F 44A71747W01	Gear, Sun
	17	44A71748W01	Gear, Planet
	18	3-F 44A71749W01	Gear, Inner
	19	2-F 44A71751W01	Pinion, Eject Base
	20	2-F 44A71752W01	Pinion, Eject
	21	04B41345P11	Washer, Lock (M1.2)
	22	2-G 43A41656W01	Spacer, UHMW-PE
	24	3-G 30T65174W07	Wire, Flat 10P
	26	5-B 07B71778W01	Holder, Cassette
	27	3-C 45A71736W03	Lever, Pack In Switch
	28	4-C 43A71775W01	Roller, Plate Base
	29	4-C 04B41345P01	Washer, Lock (M1.2)
	30	4-B 04B41345P15	Washer, Lock (M1.2)
	32	4-C 44A71753W01	Rack, GR-S
	33	4-C 41A80634W01	Spring, Rack
	34	4-B 01A90346W02	Assy., Riv. Eject Arm (B)
	35	4-C 41B63283F11	Spring
	36	4-A 01A71712W01	Assy., Riv. Plate Base
	37	4-B 45B71750W01	Slider
○	38	01A90350W01	Assy., Flywheel
●	38	01A71783W10	Assy., Flywheel
	39	01A71784W01	Reel
	40	3-B 01B30863W01	Assy., Pinch Roller
	41	3-B 01B30863W02	Assy., Pinch Roller
	42	3-F 44B71726W01	Rack, Mode
	45	2-C 45B90320W02	Lever, Select
	46	3-E 45A71737W03	Lever, Mode Switch
	47	3-E 45A71733W03	Lever, Lock
	48	2-E 44A71741W01	Gear, Take Up
	49	2-F 44A71742W01	Gear, RF
	50	43A71743W01	Guide, Pack
	51	2-E 49A71744W01	Pulley, Idler
	52	3-D 44A71746W01	Pinion, Motor
	53	49A81855W01	Reel, Cap
	54	2-F 42A71780W02	Belt
	55	2-B 41A10387W02	Spring, Pinch Roller
	56	3-E 43A71774W01	Roller, Mode
	57	03S44205G30	Screw, Pan (M2.6X4)
●	58	4-D 03A80629W01	Screw, Special (M2.6X6)
	59	3-D 04B41345P02	Washer, Lock (M1.7)
●	60	2-F 04S40075G05	Washer, Polyslider (M2.1)
●	or	2-F 04T55449W01	Washer, Polyslider (M2.1)
	61	3-F 04B41345P23	Washer, Lock (M1.7)
	62	3-B 45A90322W02	Lever, Eject Arm A

Miscellaneous

○	501	2-B	88T95215W02	Head
●	501	2-B	88T75612W03	Head
○	502	2-C	01V94900W74	Assy., Main Motor (13.2V-95mA)
●	502	2-C	01V74500W16	Assy., Main Motor (13.2V-95mA)
	503	3-C	01V74500W23	Assy., Sub Motor (7V-370mA)
	504	3-F	51T63433F03	Sensor, Photo ON2170-R2
	505	4-F	51T63433F03	Sensor, Photo ON2170-R2
	506	2-D	40T15222W01	Switch, Detector (PACK IN)
	507	4-F	40T15382W02	Switch, Detector (PAUSE)
	508	4-E	40T15382W02	Switch, Detector (MODE)
	509	4-F	40T15382W02	Switch, Detector (METAL)

NOTE : ○: For GR75S410 Model Only, ●: For GR75S42Y Model Only, Others : Common.

カセットデッキメカニズム関係部品表

※ 部品表に記入されていない部品は供給されません。

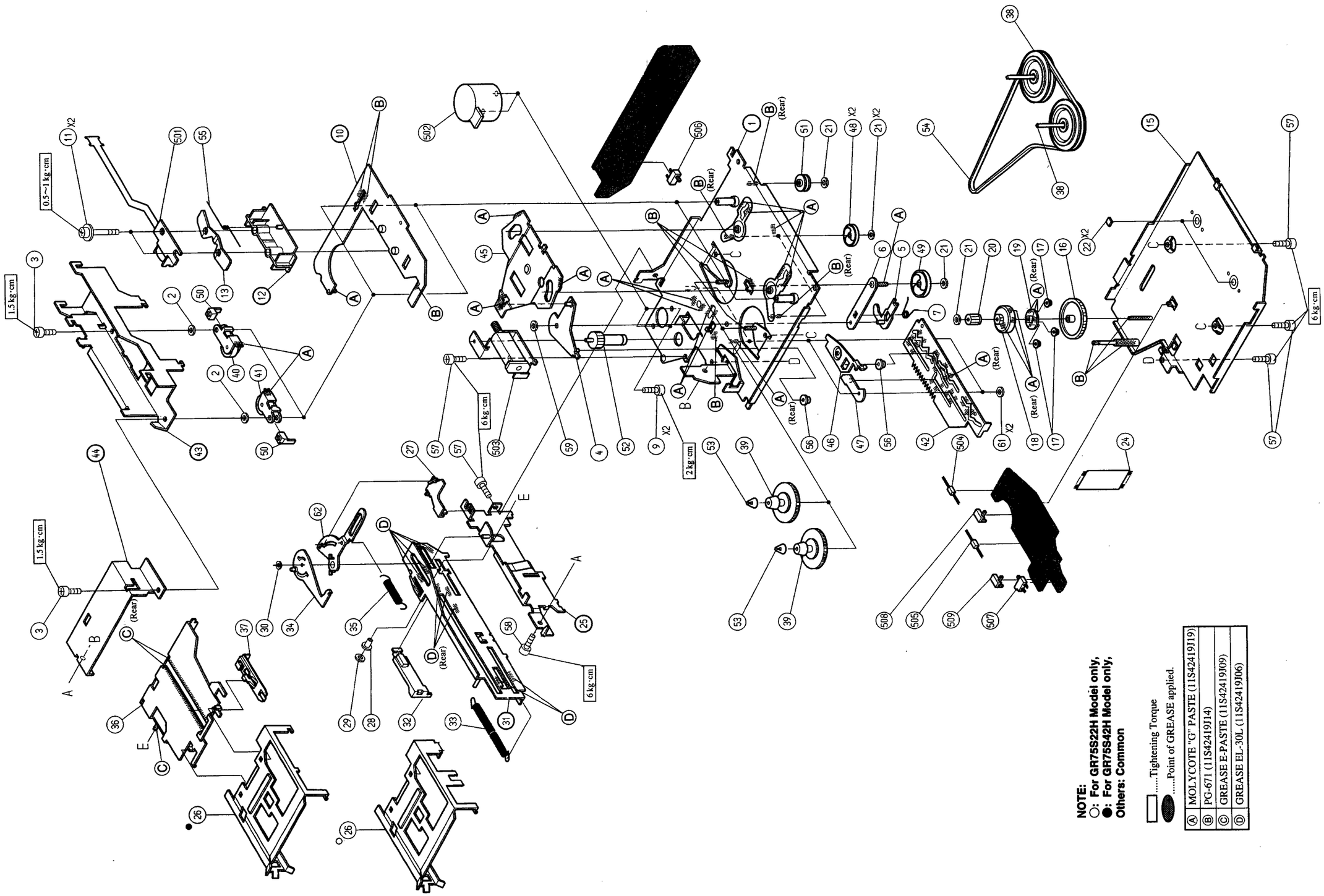
記号	索引	部品番号	部品名	標準卸価格
2		04B41345P32	Washer, Lock (M3.1)	45
3		03S43997P63	Screw, Pan (M1.7X4)	45
4	3-D	01A90342W02	Assy., Riv. Select Swing	—
5	2-F	01A71714W01	Assy., Riv. RF Lever A	120
6	2-E	01A90341W02	Assy., Riv. RF Lever B	—
7	2-F	41A71781W01	Spring, RF	45
9	3-D	03C42723U12	Screw, Cup (M2X2.5)	45
11	2-A	03A80452W02	Screw, F Locks (M2X10.7)	45
13	2-B	41A31756W01	Spring, Head	60
16	2-F	44A71747W01	Gear, Sun	50
17		44A71748W01	Gear, Planet	45
18	3-F	44A71749W01	Gear, Inner	—
19	2-F	44A71751W01	Pinion, Eject Base	100
20	2-F	44A71752W01	Pinion, Eject	90
21		04B41345P11	Washer, Lock (M1.2)	45
22	2-G	43A41656W01	Spacer, UHMW-PE	45
24	3-G	30T65174W07	Wire, Flat 10P	160
26	5-B	07B71778W01	Holder, Cassette	240
27	3-C	45A71736W03	Lever, Pack In Switch	—
28	4-C	43A71775W01	Roller, Plate Base	50
29	4-C	04B41345P01	Washer, Lock (M1.2)	45
30	4-B	04B41345P15	Washer, Lock (M1.2)	45
32	4-C	44A71753W01	Rack, GR-S	130
33	4-C	41A80634W01	Spring, Rack	80
34	4-B	01A90346W02	Assy., Riv. Eject Arm (B)	—
35	4-C	41B63283F11	Spring	45
36	4-A	01A71712W01	Assy., Riv. Plate Base	260
37	4-B	45B71750W01	Slider	45
○ 38		01A90350W01	Assy., Flywheel	380
● 38		01A71783W10	Assy., Flywheel	450
39		01A71784W01	Reel	370
40	3-B	01B30863W01	Assy., Pinch Roller	240
41	3-B	01B30863W02	Assy., Pinch Roller	240
42	3-F	44B71726W01	Rack, Mode	120
45	2-C	45B90320W02	Lever, Select	—
46	3-E	45A71737W03	Lever, Mode Switch	—
47	3-E	45A71733W03	Lever, Lock	—
48	2-E	44A71741W01	Gear, Take Up	45
49	2-F	44A71742W01	Gear, RF	45
50		43A71743W01	Guide, Pack	45
51	2-E	49A71744W01	Pulley, Idler	45
52	3-D	44A71746W01	Pinion, Motor	60
53		49A81855W01	Reel, Cap	45
54	2-F	42A71780W02	Belt	140
55	2-B	41A10387W02	Spring, Pinch Roller	45
56	3-E	43A71774W01	Roller, Mode	50
57		03S44205G30	Screw, Pan (M2.6X4)	45
● 58	4-D	03A80629W01	Screw, Special (M2.6X6)	50
59	3-D	04B41345P02	Washer, Lock (M1.7)	45
● 60	2-F	04S40075G05	Washer, Polyslider (M2.1)	45
● or	2-F	04T55449W01	Washer, Polyslider (M2.1)	45
61	3-F	04B41345P23	Washer, Lock (M1.7)	45
62	3-B	45A90322W02	Lever, Eject Arm A	—

その他の電気部品

記号	索引	部品番号	部品名	標準卸価格
○ 501	2-B	88T95215W02	Head	1,210
● 501	2-B	88T75612W03	Head	1,240
○ 502	2-C	01V94900W74	Assy., Main Motor (13.2V-95mA)	1,460
● 502	2-C	01V74500W16	Assy., Main Motor (13.2V-95mA)	1,480
503	3-C	01V74500W23	Assy., Sub Motor (7V-370mA)	1,500
504	3-F	51T63433F03	Sensor, Photo ON2170-R2	310
505	4-F	51T63433F03	Sensor, Photo ON2170-R2	310
506	2-D	40T15222W01	Switch, Detector (PACK IN)	130
507	4-F	40T15382W02	Switch, Detector (PAUSE)	130
508	4-E	40T15382W02	Switch, Detector (MODE)	130
509	4-F	40T15382W02	Switch, Detector (METAL)	130

注記 ：○：GR75S410 モデル専用, ●：GR75S42Y モデル専用, その他：共通

Exploded View (Cassette Deck Mechanism)



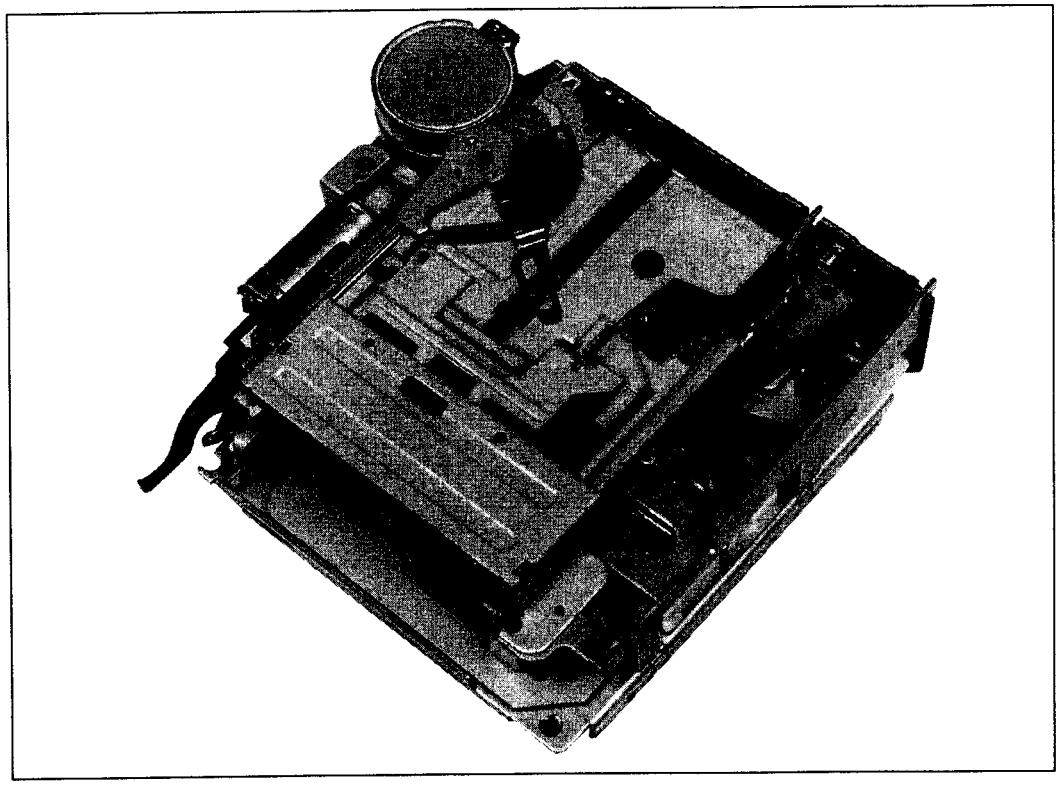
ALPINE®

SERVICE MANUAL

Cassette Deck Mechanism

ADDENDUM & REVISED (III)

- This manual is described on GR75S22H/42H only. The GR75S22H/42H is developed from GR-S SERIES. For information that is not mentioned in this service manual, refer to the Service Manual • GR-S SERIES (68E26177S01).
- 当マニュアルはGR75S22H/42Hについてのみ記載しております。又、GR-S SERIESがベースモデルとなっておりますので、相違部分のみ記載しております。詳細についてはGR-S SERIES (68E26177S01) を参照願います。



GR-S SERIES

Contents

Cassette Deck Mechanism Assembly Parts List ..... 3 to 4
Exploded View (Cassette Deck Mechanism) ..... 5 to 6

Basic Operation of GR-S Mechanism
Disassembly, Assembly and Replacement of Function Parts

Refer to the Service Manual · GR-S SERIES (Part No. 68E23241S01).

NOTE: Due to continuing product improvement, specifications and designs are subject to change without notice.

Cassette Deck Mechanism Assembly Parts List

NOTE:No parts number on parts list are not supplied.

Symbol No.		Index	Part No.	Description
	2		04B41345P32	Washer, Lock (M3.1)
	3		03S43997P63	Screw, Pan (M1.7X4)
○	4	3-D	01A90342W01	Assy., Riv. Select Swing
●	4	3-D	01A90342W02	Assy., Riv. Select Swing
○	5	2-F	01A90340W01	Assy., Riv. RF Lever A
●	5	2-F	01A71714W01	Assy., Riv. RF Lever A
○	6	2-E	01A90341W01	Assy., Riv. RF Lever B
●	6	2-E	01A90341W02	Assy., Riv. RF Lever B
	7	2-F	41A71781W01	Spring, RF
	9	3-D	03C42723U12	Screw, Cup (M2X2.5)
	11	2-A	03A80452W02	Screw, F Locks (M2X10.7)
	13	2-B	41A31756W01	Spring, Head
	16	2-F	44A71747W01	Gear, Sun
	17		44A71748W01	Gear, Planet
	18	3-F	44A71749W01	Gear, Inner
	19	2-F	44A71751W01	Pinion, Eject Base
	20	2-F	44A71752W01	Pinion, Eject
	21		04B41345P11	Washer, Lock (M1.2)
	22	2-G	43A41656W01	Spacer, UHMW-PE
	24	3-G	30T65174W07	Wire, Flat 10P
○	26	5-C	07B40012W01	Holder, Cassette
●	26	5-B	07B71778W01	Holder, Cassette
○	27	3-C	45A71736W02	Lever, Pack In Switch
●	27	3-C	45A71736W03	Lever, Pack In Switch
	28	4-C	43A71775W01	Roller, Plate Base
	29	4-C	04B41345P01	Washer, Lock (M1.2)
	30	4-B	04B41345P15	Washer, Lock (M1.2)
	32	4-C	44A71753W01	Rack, GR-S
	33	4-C	41A80634W01	Spring, Rack
○	34	4-B	01A90346W01	Assy., Riv. Eject Arm (B)
●	34	4-B	01A90346W02	Assy., Riv. Eject Arm (B)
	35	4-C	41B63283F11	Spring
○	36	4-A	01A40024W03	Assy., Riv. Plate Base
●	36	4-A	01A71712W01	Assy., Riv. Plate Base
	37	4-B	45B71750W01	Slider
	38		01A90350W01	Assy., Flywheel
	39		01A71784W01	Reel
	40	3-B	01B30863W01	Assy., Pinch Roller
	41	3-B	01B30863W02	Assy., Pinch Roller
○	42	3-F	44B90318W01	Rack, Mode B
●	42	3-F	44B71726W01	Rack, Mode
○	45	2-C	45B90320W01	Lever, Select
●	45	2-C	45B90320W02	Lever, Select
○	46	3-E	45A71737W02	Lever, Mode Switch
●	46	3-E	45A71737W03	Lever, Mode Switch
○	47	3-E	45A71733W02	Lever, Lock
●	47	3-E	45A71733W03	Lever, Lock
	48	2-E	44A71741W01	Gear, Take Up
	49	2-F	44A71742W01	Gear, RF
	50		43A71743W01	Guide, Pack
	51	2-E	49A71744W01	Pulley, Idler
	52	3-D	44A71746W01	Pinion, Motor
	53		49A81855W01	Reel, Cap
	54	2-F	42A71780W02	Belt
	55	2-B	41A10387W02	Spring, Pinch Roller
	56		43A71774W01	Roller, Mode
	57		03S44205G30	Screw, Pan (M2.6X4)
	58	4-D	03A80629W01	Screw, Special (M2.6X6)
	59	3-D	04B41345P02	Washer, Lock (M1.7)
	61	3-F	04B41345P23	Washer, Lock (M1.7)
○	62	3-B	45A90322W01	Lever, Eject Arm A
●	62	3-B	45A90322W02	Lever, Eject Arm A

Miscellaneous

	501	2-B	88T75612W03	Head
○	502	2-C	01V74500W16	Assy., Main Motor (13.2V-95mA)
●	502	2-C	01V94900W74	Assy., Main Motor (13.2V-95mA)
○	503	3-C	01V91700W81	Assy., Sub Motor (7V-370mA)
●	503	3-C	01V11700Y92	Assy., Sub Motor (7V-370mA)
	504	3-F	51T63433F03	Sensor, Photo ON2170-R2
	505	4-F	51T63433F03	Sensor, Photo ON2170-R2
	506	2-D	40T15222W01	Switch, Detector (PACK IN)
	507	4-F	40T15382W02	Switch, Detector (PAUSE)
	508	4-E	40T15382W02	Switch, Detector (MODE)
	509	4-F	40T15382W02	Switch, Detector (METAL)

NOTE : ○: For GR75S22H Model Only, ●: For GR75S42H Model Only, Others : Common.

カセット・デッキ・メカニズム関係部品表

※ 部品表に記入されていない部品は供給されません。

記号	索引	部品番号	部品名	標準卸価格
	2	04B41345P32	Washer, Lock (M3.1)	45
	3	03S43997P63	Screw, Pan (M1.7X4)	45
○	4	3-D 01A90342W01	Assy., Riv. Select Swing	—
●	4	3-D 01A90342W02	Assy., Riv. Select Swing	—
○	5	2-F 01A90340W01	Assy., Riv. RF Lever A	160
●	5	2-F 01A71714W01	Assy., Riv. RF Lever A	120
○	6	2-E 01A90341W01	Assy., Riv. RF Lever B	—
●	6	2-E 01A90341W02	Assy., Riv. RF Lever B	—
	7	2-F 41A71781W01	Spring, RF	45
	9	3-D 03C42723U12	Screw, Cup (M2X2.5)	45
	11	2-A 03A80452W02	Screw, F Locks (M2X10.7)	45
	13	2-B 41A31756W01	Spring, Head	60
	16	2-F 44A71747W01	Gear, Sun	50
	17	44A71748W01	Gear, Planet	45
	18	3-F 44A71749W01	Gear, Inner	—
	19	2-F 44A71751W01	Pinion, Eject Base	100
	20	2-F 44A71752W01	Pinion, Eject	90
	21	04B41345P11	Washer, Lock (M1.2)	45
	22	2-G 43A41656W01	Spacer, UHMW-PE	45
	24	3-G 30T65174W07	Wire, Flat 10P	160
○	26	5-C 07B40012W01	Holder, Cassette	280
●	26	5-B 07B71778W01	Holder, Cassette	240
○	27	3-C 45A71736W02	Lever, Pack In Switch	—
●	27	3-C 45A71736W03	Lever, Pack In Switch	—
	28	4-C 43A71775W01	Roller, Plate Base	50
	29	4-C 04B41345P01	Washer, Lock (M1.2)	45
	30	4-B 04B41345P15	Washer, Lock (M1.2)	45
	32	4-C 44A71753W01	Rack, GR-S	130
	33	4-C 41A80634W01	Spring, Rack	80
○	34	4-B 01A90346W01	Assy., Riv. Eject Arm (B)	—
●	34	4-B 01A90346W02	Assy., Riv. Eject Arm (B)	—
	35	4-C 41B63283F11	Spring	45
○	36	4-A 01A40024W03	Assy., Riv. Plate Base	240
●	36	4-A 01A71712W01	Assy., Riv. Plate Base	260
	37	4-B 45B71750W01	Slider	45
	38	01A90350W01	Assy., Flywheel	380
	39	01A71784W01	Reel	370
	40	3-B 01B30863W01	Assy., Pinch Roller	240
	41	3-B 01B30863W02	Assy., Pinch Roller	240
○	42	3-F 44B90318W01	Rack, Mode B	160
●	42	3-F 44B71726W01	Rack, Mode	120
○	45	2-C 45B90320W01	Lever, Select	—
●	45	2-C 45B90320W02	Lever, Select	—
○	46	3-E 45A71737W02	Lever, Mode Switch	—
●	46	3-E 45A71737W03	Lever, Mode Switch	—
○	47	3-E 45A71733W02	Lever, Lock	—
●	47	3-E 45A71733W03	Lever, Lock	—
	48	2-E 44A71741W01	Gear, Take Up	45
	49	2-F 44A71742W01	Gear, RF	45
	50	43A71743W01	Guide, Pack	45
	51	2-E 49A71744W01	Pulley, Idler	45
	52	3-D 44A71746W01	Pinion, Motor	60
	53	49A81855W01	Reel, Cap	45
	54	2-F 42A71780W02	Belt	140
	55	2-B 41A10387W02	Spring, Pinch Roller	45
	56	43A71774W01	Roller, Mode	50
	57	03S44205G30	Screw, Pan (M2.6X4)	45
	58	4-D 03A80629W01	Screw, Special (M2.6X6)	50
	59	3-D 04B41345P02	Washer, Lock (M1.7)	45
	61	3-F 04B41345P23	Washer, Lock (M1.7)	45
○	62	3-B 45A90322W01	Lever, Eject Arm A	—
●	62	3-B 45A90322W02	Lever, Eject Arm A	—

その他の電気部品

記号	索引	部品番号	部品名	標準卸価格
	501	2-B 88T75612W03	Head	1,240
○	502	2-C 01V74500W16	Assy., Main Motor (13.2V-95mA)	1,460
●	502	2-C 01V94900W74	Assy., Main Motor (13.2V-95mA)	1,480
○	503	3-C 01V91700W81	Assy., Sub Motor (7V-370mA)	1,440
●	503	3-C 01V11700Y92	Assy., Sub Motor (7V-370mA)	1,460
	504	3-F 51T63433F03	Sensor, Photo ON2170-R2	310
	505	4-F 51T63433F03	Sensor, Photo ON2170-R2	310
	506	2-D 40T15222W01	Switch, Detector (PACK IN)	130
	507	4-F 40T15382W02	Switch, Detector (PAUSE)	130
	508	4-E 40T15382W02	Switch, Detector (MODE)	130
	509	4-F 40T15382W02	Switch, Detector (METAL)	130

注記：○：GR75S22Hモデル専用，　●：GR75S42Hモデル専用，　その他：共通

Exploded View (Cassette Deck Mechanism)